

# JOHN A. LOGAN COLLEGE

## 2022-2023 Catalog Addendum

Program Guides & Course Descriptions



*Why would you go anywhere else?*



John A. Logan College

# Associate in Arts Degree Toward a Bachelor's Degree in Actuarial Science

Transfer Curriculum 000AA0086

Associate in Arts: 64 Hrs. Min.

Major Code: 1.1 521304

Effective Date: Fall 2022

## GENERAL EDUCATION (IAI GECC, 37-38 CREDITS)

The Illinois Articulation Initiative (IAI) General Education Core Curriculum (GECC) requires 12 to 13 courses from the following five areas. Courses selected to meet IAI GECC requirements may also meet course requirements for a specific major.

### IAI COMMUNICATIONS (3 COURSES)

	Sem.	Grade
ENG 101 or ENG 113 (C grade or higher)	_____	_____
ENG 102 (C grade or higher)	_____	_____
COM 115 Speech (3)	_____	_____

### IAI HUMANITIES AND FINE ARTS (3 COURSES)

At least one course must be an IAI Fine Arts elective and one course must be an IAI Humanities elective.

	Sem.	Grade
Fine Arts Elective (3)	_____	_____
PHL 121 or Humanities Elective (3)	_____	_____
Humanities or Fine Arts Elective (3)	_____	_____

#### IAI Fine Arts Electives:

Art: ART 111, 220, 221, 291

Literature: LIT 275

Music: MUS 105, 225

Theater: THE 113

#### IAI Humanities Electives:

Foreign Language: FRE 202, GER 202, SPN 202

History: HIS 101, 102, 213

Literature: LIT 210, 230, 235, 264, 280, 281, 284, 295

Philosophy: PHL 111, 121, 131, 200, 260

### IAI MATHEMATICS (1 COURSE)

	Sem.	Grade
MAT 131 Calculus I (5)	_____	_____

### IAI SOCIAL AND BEHAVIORAL SCIENCES (3 COURSES)

At least two different disciplines (course prefixes) must be represented.

	Sem.	Grade
ECO 201 Macroeconomics (3)	_____	_____
ECO 202 Microeconomics (3)	_____	_____
Social Science Elective (3)	_____	_____

#### IAI Social and Behavioral Sciences Electives:

Anthropology: ANT 111, 202, 216, 240

Economics: ECO 201, 202

Geography: GEO 112

History: HIS 103, 104, 201, 202

Political Science: PSC 131, 211, 212, 213, 289

Psychology: PSY 132, 200, 203, 262

Sociology: SOC 133, 221, 263, 264

### IAI PHYSICAL/LIFE SCIENCES (2 COURSES)-7 CREDITS

One course must be at least 4 credit hours and include a lab component.

	Sem.	Grade
Life Science Elective	_____	_____
PHY 205 University Physics or Elective	_____	_____

#### IAI Life Science Electives:

Biology: BIO 100, 101, 105, 225

Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B

Life Science: SCI 215

#### IAI Physical Science Electives:

Chemistry: CHM 141, 151

Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B

Physical Science: PHS 102,103,105,107

Physics: PHY 121, 155, 205

## MAJOR AND GENERAL ELECTIVE REQUIREMENTS (IAI GECC and major/elective credits must total a minimum of 64 hours).

	Sem.	Grade
ORI 100 (1)	_____	_____
MAT 201 Calculus II	_____	_____
MAT 202 Calculus III (3)	_____	_____
Foreign Language (8-16)	_____	_____
ACC 200 Financial Accounting I (3)	_____	_____
ACC 201 Financial Accounting II (3)	_____	_____
ACC 202 Managerial Accounting or Elective (3)	_____	_____

**Articulation Notes:** Consult with the transfer institution to determine if certain courses require a grade of "C" or higher, or if there is a minimum grade point average for admission to your declared major. Please select courses on this guide in accordance with the Articulation Notes for your transfer institution. Some four-year universities will apply up to 70-78 hours of transfer credit. Verify with your intended university the number of hours completed that will be applicable toward a specific program of study before transferring. Investigate the required Professional Actuarial Examinations to determine the schedule and if one or more are required prior to entering the junior year.

#### SIUC

Offers a B.A. degree in Mathematics with a specialization in Actuarial Mathematics under the College of Liberal Arts. Take one year of a foreign language: FR 101/102 (FR 123A/B), GER 101/102 (GER 126A/B) or SPN 101/102 (SPAN 140A/B) A. Take ENG 113 (with ENG 101/102, ENG 113 will substitute for ENGL 291). Take two courses to satisfy an International Coursework requirement for the College of Liberal Arts (ART 220, 223, HIS 101A, 101B, 223, ANT 111, PSC 289). Take MAT 131 (MATH 150), MAT 201 (MATH 250), MAT 202 (MATH 251) and MAT 221 (MATH 221). Take CPS 202 (CS 202). Take MAT 205 (MATH 305) to meet a Group C-Applied Mathematics requirement. Take additional courses required for VEE examinations: ECO 202 (ECON 240) and ECO 201 (ECON 241), ACC 200/201 (ACCT 220) and ACC 202 (ACCT 230). Students become Actuaries by taking three Validation by Educational Experience (VEE) course sequences and by passing professional examinations given by the society of Actuaries (SOA) and Casualty Actuarial Society (CAS). Students are required to complete three VEE course sequences and are encouraged to pass EXAM P/1., FM/2 and either MLC/3L or C/4.

#### ISU

Offers an Actuarial Science sequence under Mathematics. Take MAT 131 (MAT 145), MAT 201 (MAT 146), MAT 202 (MAT147) and MAT 221 (MAT175). Take ACC 200/201 (ACC 131) and ACC 202 (ACC 132). Take ECO 201 (ECO 101) and ECO 202 (ECO 102). Take MAT 282 (MQM 100). Take CPS 206 (IT 168). To meet the AMALI graduation requirement, take one of the following: ANT 111, 216, GEO 112, HIS 103, 104, 213, HUM 120, PSC 120, 212, 213, PHL 200 or 260. If you are seeking the B.S degree option, you need to meet the SMT (Science, Mathematics and Technology) requirement. Select a course from BIO 105, 226, 240, 275, CHM 142, 201, MAT 120 or 282, PHS 107, MAT 117, 201, 202, CPS 202 or MAT 125, MAT 221, BUS 121 or MAT 282, PHY 156, 206. If you are seeking the B.A. degree option, you will need to complete LAN 115 or the equivalent (FRE 201, GER 201 or SPN 201).

#### UIUC

Offers Mathematics and Actuarial Sciences under the College of Liberal Arts and Sciences. To graduate, the fourth level of one language is required (take SPN 101/102/201/202, GER 101/102/201/202 or FRE 101/102/201/202. Take MAT 131 (MATH 220), MAT 201 (MATH 231) and MAT 202 (MATH 241). UIUC requires MATH 292 (bridge course) to get 241 credit. Take CPS 206 (CS 101), ECO 202 (ECON 102), ECO 201 (ECON 103) and a financial Accounting course (ACC 200/201). A 2.70 or higher GPA is required for admission A grade of B or higher is required for each Mathematics course taken.

## **SIUE**

Offers an Actuarial Science specialization under Mathematical Studies (B.A. or B.S. degree options). Take MAT 131 (MATH 150), MAT 201 (MATH 152), MAT 202 (MATH 250), MAT 205 (MATH 305) and MAT 221 (MATH 321). Take ECO 201 (ECON 111) and ECO 202 (ECON 112). Take PHY 205 (PHYS 151/151L). Take ACC 200/201 (ACCT 200) and ACC 202 (ACCT 210).

SIUE's CS 145 is required but CS 140 (CPS 206 at JALC) can satisfy this requirement. The most popular minor for this major is computer science. For this minor with Mathematical Studies, CS 140 (CPS 206) is the better option and satisfies the minor requirement.

Students pursuing the B.A. degree option will need two semesters of the same foreign language (SPN 101/102, FRE 101/102 or GER 101/102)





John A. Logan College

# Associate in Arts in Agribusiness Economics

Transfer Curriculum 000AA0086  
Minimum Hours: 64  
Major Code: 1.1 010103  
Effective Date: Fall 2019

## GENERAL EDUCATION (IAI GECC, 37-38 credits)

The Illinois Articulation Initiative (IAI) General Education Core Curriculum (GECC) requires 12 to 13 courses. Courses selected to meet IAI GECC requirements may also meet course requirements for a specific major.

### IAI COMMUNICATION (9 HOURS)

	Sem.	Grade
ENG 101 or ENG 113 (C grade or higher)	_____	_____
ENG 102 (C grade or higher)	_____	_____
COM 115 Speech	_____	_____

### IAI HUMANITIES AND FINE ARTS (9 HOURS)

At least one course must be an IAI Fine Arts elective and one course must be an IAI Humanities elective.

	Sem.	Grade
Fine Arts Elective	_____	_____
Humanities Elective	_____	_____
Humanities or Fine Arts Elective	_____	_____

#### IAI Fine Arts Electives:

Art: ART 111, 220, 221, 291  
Literature: LIT 275  
Music: MUS 105, 225  
Theater: THE 113

#### IAI Humanities Electives:

Foreign Language: FRE 202, GER 202, SPN 202  
History: HIS 101, 102, 213  
Literature: LIT 211, 212, 231, 232, 235, 264, 280, 281, 284, 295  
Philosophy: PHL 111, 121, 131, 200, 260

### IAI MATHEMATICS (1 COURSE)

	Sem.	Grade
MAT 117 (4) or MAT 131 (5) or MAT 120 (3) or MAT 119 or MAT 282 (3) or MAT 116 (3)	_____	_____

### IAI SOCIAL AND BEHAVIORAL SCIENCES (9 HOURS)

At least two different disciplines (course prefixes) must be represented.

	Sem.	Grade
ECO 201 (3)	_____	_____
ECO 202 (3)	_____	_____
Social Science Elective (3)	_____	_____

### IAI PHYSICAL/LIFE SCIENCES (7-8 HOURS)

One course must include a lab component.

	Sem.	Grade
BIO 101 (4) or Life Science Elective	_____	_____
CHM 141 (4) or CHM 151 (5) or Physical Science Elective	_____	_____

#### IAI Life Science Electives:

Biology: BIO 100, 101, 105, 225  
Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B  
Life Science: SCI 215

#### IAI Physical Science Electives:

Chemistry: CHM 141, 151  
Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B  
Physical Science: PHS 102, 103, 105, 107  
Physics: PHY 121, 155, 205

## NOTES AND INFORMATION

### MAJOR AND GENERAL ELECTIVE REQUIREMENTS

IAI GECC and major/elective credits must total a minimum of 64 hours for the degree.) Select courses on this guide in accordance with the Articulation Notes. Students planning to transfer to other four year institutions should follow the recommendations outlined in that colleges course catalog. Course equivalencies may be found on that college website or on the Transferology website at [www.itransfer.org](http://www.itransfer.org)

	Sem.	Grade
ORI 100 (1)	_____	_____
ACC 200 (3)	_____	_____
ACC 201 (3)	_____	_____
ACC 202 or Elective (3)	_____	_____
MAT 117 (4) or MAT 131 (5) or MAT 116 (3) or MAT 108 (4)	_____	_____
AGR 101 (3)	_____	_____
AGR 112 (3)	_____	_____
AGR or General Elective	_____	_____
AGR or General Elective	_____	_____
AGR or General Elective	_____	_____

**ARTICULATION NOTES:** Consult your academic advisor and/or transfer institution to assess if any courses required for your major require a grade of C or higher and if there is a minimum grade point average needed for admission consideration into your major.

### IAI Agriculture Major Panel:

For a major in AG Econ and Agribusiness, this panel recommends AGR 101-3 (IAI AG 901-Intro to Agricultural Economics), AGR 112-3 (IAI AG 913-Introductory Microcomputer Skills in Agriculture), ECO 201-3 (S3 902 Principles of Microeconomics) and/or ECO 201-3 (S3 901- Principles of Macroeconomics), and BUS 903 -ACC 200-3/201-3 (Financial Accounting) and ACC 202-3 (IAI BUS 904-Managerial Accounting). MAT 116 or 117 or 120 are recommended. Two are preferred.

Students should consider additional Agriculture Electives; AGR 121-4 (IAI AG 902- Introduction to Animal Science, AGR 102-4 (IAI AG903-Introduction to Crop or Plant Science), AGR 104-3 (IAI AG 904-Introduction to Soil Science), AGR 103-3 (IAI 905-Introduction to Horticulture), AGR 122-3 (IAI AG 906-Introduction to Agricultural Mechanization)

**SIUC:** SIUC offers a Customized Study in Agribusiness Economics by working closely with a faculty advisor. Examples of different career tracks include Sales and Marketing, Energy and Environmental Policy, Farm Business Management, Agribusiness Management and Finance and Agricultural and Rural Real Estate Appraisal. (NOTE: SIUC will accept applicable/articulated credits beyond the Associate degree and up to 78 credits)  
Take AGR 101 (ABE 204) and AGR 112 (AGSE 318). Take two classes from the following: COM 121 (CMST 221), BUS 235 (MGMT 202), or ENG 113 with ENG 101 and 102(ENGL 291). ACC 200 and 201 (ACCT 220), ECO 202 (ECON 240) and ECO 201 (ECON 241). MAT 108 (MATH 108), or MAT 116 (MATH 139) or MAT 117 (MATH 140) is recommended.

**ISU:** ISU offers an Agribusiness sequence under Agriculture. Take AGR 101 (AGR 110) CHM 141 or 151 (CHE 140), ECO 201 and 202 (ECO 105), MAT 116 (MAT 120). Take four courses from AGR 122 (AGR 130), AGR 102 (AGR 150), AGR 104 (AGR157), AGR 121 (AGR 170) or AGR 112 (AGR 205).

Take one of the following courses to meet the AMALI graduation requirement \*ANT 111,216, GEO 112, HIS 213, HUM 120, PHL 200 or 260). Take one of the following to meet the BS SMT graduation requirement (ANT 240, BIO 105, 226, 240, 27, BUS 121, CHM 142, 152, 201, CPS 202, MAT 117, 120,125,201,202,282,PHS 107, PHY 156 or 206).



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**UIUC:** Offers a concentration in Agribusiness under Agricultural and Consumer Economics, take AGR 112 (ACE 161). In addition, take ECO 202 (ECON 102), ACC 200/201 (ACCY 201), MAT 131 (MATH 220) or MAT117 (MATH 234) and MAT 116 (MATH 124) or MAT 201 (MATH 231) and ACC 202 (ACCY 202). Also take CIS 207 or CIS 101 (ACE 161), SPE 115 (CMN101), BUS 121 (ECON 202), ENG 101 and 102 (RHET 105) and SPN 201, GER 201 or FRE 201 (a 3<sup>rd</sup> level course in a foreign language).

**WIU:** Offer an Agricultural Business option under Agriculture. Take AGR 101 (AGRI 220). For Agriculture Electives, take one from three groupings: 1-AGR 122 (AGTM 250), 2-AGR 102 (AGRN 176) or AGR 103 (HORT 180), 3-AGR 104 (AGRN 278) and 4-AGR 121 (ANSC 112) Take ACC 200,201 and 202 (ACCT 201/202), ECO 201 and 202 (ECON 231/232), MAT 117 (MATH 137) or MAT 282 or 120 (STAT 171). Select two course sequence –single language from FRE/GER/SPN 101/102/201/202, or two courses from PHL 131 (PHIL 100) or PHL 111 (PHIL 120) or PHL 121 (PHIL 140). Select one course from the following: BIO 101 (BOT 200), BIO 102 (ZOO 200), CHM 141 (CHEM 101), CHM 151 (CHEM 201), BIO 226 (MICR 200), PHS 220 (GEOL 110), PHY 155/156 (PHYS 114/115), PHY 205 (PHYS 211).

*John A. Logan College reserves the right to modify this curriculum guide as needed. Please verify with your academic advisor the accuracy and time lines of this document.*



John A. Logan College

# Associate in Arts Degree in Agriculture- Agriculture Education

Transfer Curriculum 000AA0086

Associate in Arts: 62 Hrs. Min.

Major Code: 1.131301

Effective Date: Fall 2019

## GENERAL EDUCATION (IAI GECC, 37-38 CREDITS)

The Illinois Articulation Initiative (IAI) General Education Core Curriculum (GECC) requires 12 to 13 courses from the following five areas. Courses selected to meet IAI GECC requirements may also meet course requirements for a specific major.

### IAI COMMUNICATIONS (3 COURSES)

	Sem.	Grade
ENG 101 or ENG 113 (C grade or higher)	_____	_____
ENG 102 (C grade or higher)	_____	_____
COM 115 Speech	_____	_____

### IAI HUMANITIES AND FINE ARTS (3 COURSES)

At least one course must be an IAI Fine Arts elective and one course must be an IAI Humanities elective.

	Sem.	Grade
ART 111, or MUS 105 or THE 113 or Fine Arts Elective (3)	_____	_____
HIS 213 or PHL 200 or PHL 260 or Humanities Elective (3)	_____	_____
Humanities or Fine Arts Elective (3)	_____	_____

#### IAI Fine Arts Electives:

Art: ART 111, 220, 221, 291  
Literature: LIT 275  
Music: MUS 105, 225  
Theater: THE 113

#### IAI Humanities Electives:

Foreign Language: FRE 202, GER 202, SPN 202  
History: HIS 101, 102, 213  
Literature: LIT 210, 230, 235, 264, 280, 281, 284, 295  
Philosophy: PHL 111, 121, 131, 200, 260

### IAI MATHEMATICS (1 COURSE)

	Sem.	Grade
MAT 119 or MAT 120 or MAT 282 or MAT Elective (3)	_____	_____

#### IAI Mathematics Electives:

MAT 112, MAT 113, MAT 116, MAT 117, MAT 120, MAT 125/CPS 202, MAT 131, MAT 201, MAT 202, MAT 209, MAT 282

### IAI SOCIAL AND BEHAVIORAL SCIENCES (3 COURSES)

At least two different disciplines (course prefixes) must be represented.

	Sem.	Grade
PSY 132 or Social Science Elective	_____	_____
ANT 111 or ANT 216 or GEO 112 or Social Science Elective	_____	_____
HIS 103 or HIS 104 or Social Science Elective	_____	_____

#### IAI Social and Behavioral Sciences Electives:

Anthropology: ANT 111, 202, 216, 240  
Economics: ECO 201, 202  
Geography: GEO 112  
History: HIS 103, 104, 201, 202  
Political Science: PSC 131, 211, 212, 213, 289  
Psychology: PSY 132, 200, 203, 262  
Sociology: SOC 133, 221, 263, 264

### IAI PHYSICAL/LIFE SCIENCES (2 COURSES)

One course must be at least 4 credit hours and include a lab component.

	Sem.	Grade
BIO 100 (4) or BIO 101 (4) or BIO 102 (4)	_____	_____
CHEM 141 (4) or CHM 151 (5) or Physical Science Elective	_____	_____

#### IAI Life Science Electives:

Biology: BIO 100, 101, 105, 225  
Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B  
Life Science: SCI 215

#### IAI Physical Science Electives:

Chemistry: CHM 141, 151  
Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B  
Physical Science: PHS 102,103,105,107  
Physics: PHY 121, 155, 205

### MAJOR AND GENERAL ELECTIVE REQUIREMENTS (IAI GECC and major/elective credits must total a minimum of 62 hours, of which 24-25 must be general elective credits.)

IAI GECC and major/elective credits must total a minimum of 64 hours for the degree.) Select courses on this guide in accordance with the Articulation Notes. Students planning to transfer to other four year institutions should follow the recommendations outlined in that colleges course catalog. Course equivalencies may be found on that college website or on the Transferology website at [www.itransfer.org](http://www.itransfer.org)

#### Major & General Electives

	Sem.	Grade
ORI 100 (1)	_____	_____
AGR 111 (3) Intro to Ag. Education	_____	_____
AGR 112 (3) Computers in Ag	_____	_____
EDC 202 (3) Hum. Growth, Dev. & Lrning	_____	_____
EDC 203 (3) Schooling in a Div. Society	_____	_____
MAT 108 or MAT 116 or MAT 117 or MAT 131 or Elective (3-5)	_____	_____
AGR or General Elective	_____	_____
AGR or General Elective	_____	_____
AGR or General Elective	_____	_____

**ARTICULATION NOTES:** Consult your academic advisor and/or transfer institution to assess if any courses required for your major require a grade of C or higher and if there is a minimum grade point average needed for admission consideration into your major.

**TEACHER EDUCATION PROGRAM:** To be considered for admission into a formal Teacher Education Program, qualifying scores on the TAP, ACT writing, or SAT must be submitted. Students must earn a grade of "C" or higher in all courses for an endorsement and required in the major. Students must also meet the minimum grade point average required for consideration into the TEP (typically a minimum of 2.5, but may be higher depending on the institution or program option selected). SIUC requires a **minimum 2.75** grade point average for consideration. Helpful tips for applying to a Teacher Education Program may be found [here](#):

#### IAI Agriculture Major Panel

For a major in Agriculture Education, the panel recommends AGR 111 (AG 911-Introduction to Agricultural Education) and AGR 112 (IAI AG 913-Introductory Microcomputer Skills in Agriculture). MAT 117-4 or 131-5 or MAT 116-3 (College level Calculus or General Education Statistics or Finite Mathematics). In addition to MAT 120 or 282, a second MAT course is recommended-MAT 117 or 131 or MAT 116. CHM 141 or 151 (General Education Chemistry with Laboratory) and BIO 101(General Education Biology with Laboratory) are also recommended. Under the IAI Humanities and Social and Behavioral Sciences, a non-Western culture course is recommended. Under Humanities and Fine Arts, take HIS 213-3, PHL 200-3 or 260-3. Under the Social and Behavioral Sciences area, take ANT 111, 216, GEO 112, HIS 103 or 104  
AGR electives include AGR 101-3 (IAI AG 901), AGR 121-4 (AIA AG 902), AGR-102-4 (IAIAG 903), AGR 104-3 (AIAI AG 904), AGR 103-3 (IAI AG 905 and AGR 122-3 (IAI AG 906).

**SIUC:** Take AGR 111 (AGSE 110), AGR 222 (AGSE 170), AGR 112 (AGSE 318), AGR 121 (ANS 121/122) AGR 102 (CSEM 200) or AGR 103 (HORT 200) and AGR 101 (ABE 204). For AGR Electives, take HTH 100 (HND 101) and AGR 104 (CSEM

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240). Take HIS 213(EA102) or HIS 103 (HIST 101A) or HIS 104 (HIST 101B), MAT 108 (MATH 108), CHM 106 (PHS 104), BIO 100 (PLB 115), PSY 132 (PSYC 102), EDC 203 (EDUC 211) and EDC 202 (EDUC 214).

**NOTE APPROVED SUBSTITUTIONS:** For MATH 108 =MAT 117 (MATH 140) or MAT 131 (MATH 131). For CHEM 106, CHM 141 (CHEM 140A) or CHM 151 (CHEM 200). (NOTE: SIUC will accept applicable/articulated credits beyond the Associate degree and up to 78 credits).

**ISU:** Take AGR 101 (AGR 110), AGR 103 (AGR 120), AGR 122 (AGR 130), AGR 102 (AGR 150), AGR 104 (AGR 157), AGR 121 (AGR 170), AGR 111 (AGR 190), AGR 112 (AGR 205). Students are encouraged to consider a second licensure in an academic area such as Biological Sciences, Chemistry or Mathematics. Take BIO 102 (BSC 196) or BIO 101 (BSC 197). BIO 102 preferred. CHM 141 or 151 (CHE 140). MAT 116 (MAT 120) and PSY 132 are both recommended. Take one of the following to satisfy the AMALI graduation requirement (ANT 11,216, GEO 112, HIS 213, HUM 120 or PHL 200, 260. Take one of the following to satisfy the BS SMT graduation requirement (ANT 240, BIO 226, BUS 121, CHM 142,152,201, CPS 202 MAT 117,120, 125, 201, 202, 221, 282, PHS 107, PHY 156 or 206).

**UIUC:** Agricultural Science Education is a concentration under the Agricultural Leadership and Science Education major. Take AGR 101 (ACE 100), AGR 121 (ANSC 100), AGR 102 (CPSC 112), AGR 103 (HORT 100) and AGR 122 (TSM 100).

Take ECO 202 (ECON 102), CHM 151 (CHEM 102 and 103), COM 115 (CMN 101), EDC 203 (EPS 201), MAT 116 (MATH 124) or MATH 131 (MATH 220) or MAT 117 (MATH 234). Note that MAT 117 (MATH 234) is strongly recommended. Take PSY 132 (PSYC 100), MAT 120 or 282 (STAT 100). SPN 201 or GER 201 or FRE 201 is required to satisfy the language requirement (third level course) for a degree under the College of Agricultural, Consumer and Environmental Sciences(ACES).

**WIU:** Take AGR 111 (AGED 131).For Agriculture Electives, select one course from three groupings: 1-AGR 122 (AGTM 250). 2-AGR 102 (AGRN 176) or AGR 103 (HORT 180), 3-AGR 104 (AGRN 278), 4- AGR 121 (ANSC 112) Take BIO 102 (BOT 200), CHM 141 or 151 (CHEM 101), HIS 201 or 202 (HIST 105 or 106), MAT 120 or 282 (STAT 171), PSC 131 (POLS122). Take one of the following courses: BIO 102 (BOT 200), CHM 142 (CHEM 102), CHM 152 (CHEM 202), PHS 220 (GEOL 110), BIO 226 (MICR 200), PHY 121 or 155 (PHYS 114), PHY 156 (PHYS 115), PHY 205 (PHYS 211) or BIO 101 (ZOOL 200). Also take PSY 265 or EDC 208 (SPED 210). To fulfill a foreign language/global issues graduation requirement, take one of the following courses: ANT 111 or 216 (ANTH 110), GEO 112 (GEOG 110), PSC 212 (POLS 228) or PSC 289 (POLS 267).





John A. Logan College

# Associate in Arts in Agriculture-Agricultural Mechanization

Transfer Curriculum 000AA0086

Minimum Hours: 64

Major Code: 1.1010201

Effective Date: Fall 2019

## GENERAL EDUCATION (IAI GECC, 37-38 credits)

The Illinois Articulation Initiative (IAI) General Education Core Curriculum (GECC) requires 12 to 13 courses. Courses selected to meet IAI GECC requirements may also meet course requirements for a specific major.

### IAI COMMUNICATION (3 COURSES)

	Sem.	Grade
ENG 101 or ENG 113 (C grade or higher)	_____	_____
ENG 102 (C grade or higher)	_____	_____
COM 115 Speech	_____	_____

### IAI HUMANITIES AND FINE ARTS (3 COURSES)

At least one course must be an IAI Fine Arts elective and one course must be an IAI Humanities elective.

	Sem.	Grade
Fine Arts Elective	_____	_____
Humanities Elective	_____	_____
Humanities or Fine Arts Elective	_____	_____

#### IAI Fine Arts Electives:

Art: ART 111, 220, 221, 291

Literature: LIT 275

Music: MUS 105, 225

Theater: THE 113

#### IAI Humanities Electives:

Foreign Language: FRE 202, GER 202, SPN 202

History: HIS 101, 102, 213

Literature: LIT 211, 212, 231, 232, 235, 264, 280, 281, 284, 295

Philosophy: PHL 111, 121, 131, 200, 260

### IAI MATHEMATICS (1 COURSE)

	Sem.	Grade
MAT 117 (4) or MAT 131 (5)	_____	_____

### IAI SOCIAL AND BEHAVIORAL SCIENCES (3 COURSES)

At least two different disciplines (course prefixes) must be represented.

	Sem.	Grade
Social Science Elective	_____	_____
Social Science Elective	_____	_____
Social Science Elective	_____	_____

#### IAI Social and Behavioral Sciences Electives:

Anthropology: ANT 111, 202, 216, 240

Economics: ECO 201, 202

Geography: GEO 112

History: HIS 103, 104, 201, 202

Political Science: PSC 131, 211, 212, 213, 289

Psychology: PSY 132, 200, 203, 262

Sociology: SOC 133, 221, 263, 264

### IAI PHYSICAL/LIFE SCIENCES (2 COURSES)

One course must be at least 4 credits and include a lab component.

	Sem.	Grade
BIO 100 (4) or BIO 101 (4) or BIO 102 (4) or Life Science Elective	_____	_____
CHM 141 (4) or CHM 151 (5)	_____	_____

## NOTES AND INFORMATION

### MAJOR AND GENERAL ELECTIVE REQUIREMENTS

(IAI GECC and major/elective credits must total a minimum of 64 hours for the degree.) Select courses on this guide in accordance with the Articulation Notes. Students planning to transfer to other four year institutions should follow the recommendations outlined in that colleges course catalog. Course equivalencies may be found on that college website or on the Transferology website at [www.itransfer.org](http://www.itransfer.org)

	Sem.	Grade
ORI 100 (1)	_____	_____
AGR 101 (3)	_____	_____
AGR 112 (3)	_____	_____
AGR 121 (4) or AGR 102 (4)	_____	_____
MAT 120 (3) or MAT 282 (3)	_____	_____
ACC 200 (3)	_____	_____
ACC 201 (3)	_____	_____
PHY 155 (5)	_____	_____
Elective (3)	_____	_____

**ARTICULATION NOTES:** Consult your academic advisor and/or transfer institution to assess if any courses required for your major require a grade of C or higher and if there is a minimum grade point average needed for admission consideration into your major.

#### IAI Agriculture Major Panel:

(For Agricultural Mechanization the following courses are recommended): AGR 102 (IAI AG 903), AGR 122 (IAI AG 906) and AGR 112 (IAI AG 913). In addition, select Agriculture Electives depending on your transfer institution with assistance from your academic adviser. Select from AGR 101 (IAI AG 901), AGR 121 (IAI AG 902), AGR 104 (IAI AG 904), AGR 103 (IAI AG 905). Take MAT 117 or 131, MAT 120 or 282 or MAT 116. Take CHM 141 or 151. Take BIO 101 or 102.

#### SIUC offers specialization in Agricultural Systems Technology Management

(NOTE: SIUC will accept applicable/articulated credits beyond the Associate degree and up to 78 credits)

Take AGR 112 (AGSE 318), AGR 101 (ABE 204). Take AGR 121 (ANS 121 and 122) or AGR 102 (CSEM 200)

Take MAT 108 (MATH). MAT 117 (MATH 140) or MAT 131 (MATH 150) are acceptable substitutes for MAT 108. Take BIO 100 (PLB 115). CHM 141 (CHEM 140A) or CHM 151 (CHEM 200/201) will substitute for CHEM 106. Take PHY 155 (PHYS 203A and 253A). As Management Electives, take ACC 200/201 (ACCT 220) and BUS 121 (MGMT 208)

#### UIUC

Offers a Technical Systems Management degree. Under Agricultural and Biological Engineering (ABE), students can specialize in either Technical Systems Management or Agricultural and Biological Engineering.

For Technical Systems Management:

Take MAT 131 (MATH 220) or MAT 117 (MATH 234). Take ACC 200/201 (ACCY 201), AGR 101 (ACE 100), AGR 112 (ACE 161), CHM 151 (CHEM 102/103), SPE 115 (CMN 101), AGR 102 (CPSC 112), ECO 201 (ECON 103), AGR 104 (NRES 201), PHY 155 (PHYS 101), PHY 156 (PHYS 102) or CHM 152 (CHEM 104/105), ENG 101/102 (RHET 105), MAT 120 or 282 (STAT 100), AGR 122 (TSM 100) and complete the third level of a single foreign language (FRE 201, GER 201 or SPN 201)

John A. Logan College reserves the right to modify this curriculum guide as needed. Please verify with your academic advisor the accuracy and time lines of this document.



John A. Logan College

# Associate in Arts in Agriculture-Animal Science

Transfer Curriculum 000AA0086  
Minimum Hours: 62  
Major Code: 1.1 010901  
Effective Date: Fall 2019

## GENERAL EDUCATION (IAI GECC, 37-38 credits)

The Illinois Articulation Initiative (IAI) General Education Core Curriculum (GECC) requires 12 to 13 courses. Courses selected to meet IAI GECC requirements may also meet course requirements for a specific major.

### IAI COMMUNICATION (3 COURSES)

	Sem.	Grade
ENG 101 or ENG 113 (C grade or higher)	_____	_____
ENG 102 (C grade or higher)	_____	_____
SPE 115 Speech	_____	_____

### IAI HUMANITIES AND FINE ARTS (3 COURSES)

At least one course must be an IAI Fine Arts elective and one course must be an IAI Humanities elective.

	Sem.	Grade
Fine Arts Elective	_____	_____
Humanities Elective	_____	_____
Humanities or Fine Arts Elective	_____	_____

#### IAI Fine Arts Electives:

Art: ART 111, 220, 221, 291

Literature: LIT 275

Music: MUS 105, 225

Theater: THE 113

#### IAI Humanities Electives:

Foreign Language: FRE 202, GER 202, SPN 202

History: HIS 101, 102, 213

Literature: LIT 211, 212, 231, 232, 235, 264, 280, 281, 284, 295

Philosophy: PHL 111, 121, 131, 200, 260

### IAI MATHEMATICS (1 COURSE)

	Sem.	Grade
MAT 116(3) or MAT 117 (4) or MAT 120 (3) or MAT 131 (5) or MAT 282 (3)	_____	_____

### IAI SOCIAL AND BEHAVIORAL SCIENCES (3 COURSES)

At least two different disciplines (course prefixes) must be represented.

	Sem.	Grade
Social Science Elective	_____	_____
Social Science Elective	_____	_____
Social Science Elective	_____	_____

#### IAI Social and Behavioral Sciences Electives:

Anthropology: ANT 111, 202, 216, 240

Economics: ECO 201, 202

Geography: GEO 112

History: HIS 103, 104, 201, 202

Political Science: PSC 131, 211, 212, 213, 289

Psychology: PSY 132, 200, 203, 262

Sociology: SOC 133, 221, 263, 264

### IAI PHYSICAL/LIFE SCIENCES (2 COURSES)

One course must be at least 4 credits and include a lab component.

	Sem.	Grade
BIO 101 (4) or BIO 102 (4)	_____	_____
CHM 141 (4) or CHM 151 (5)	_____	_____

## NOTES AND INFORMATION

### MAJOR AND GENERAL ELECTIVE REQUIREMENTS

(IAI GECC and major/elective credits must total a minimum of 62 hours for the degree.)

Select remaining hours of elective credit based on Articulation Notes and transfer Institution of your choice.

	Sem.	Grade
ORI 100 (1)	_____	_____
AGR 112 (3)	_____	_____
AGR 121 (4)	_____	_____
CHM 142 (4) or CHM 152 (5)	_____	_____
CHM 201 (5) or Elective	_____	_____
Elective	_____	_____
Elective	_____	_____

**ARTICULATION NOTES:** Consult your academic advisor and/or transfer institution to assess if any courses required for your major require a grade of C or higher and if there is a minimum grade point average needed for admission consideration into your major.

#### IAI Agriculture Major Panel Recommendations:

Take AGR 121 (AG 902), CHM 152 (CHM 912) and/or BIO 102 (second course in BIO 910 sequence). Take AGR 112 (AG 913). In addition, take MAT 117 or MAT 131 or MAT 120 or MAT 282 or MAT 116. Take CHM 141 or 151 (General Education Chemistry with Lab) and BIO 102 (General Education Biology with Lab).

Select AGR electives provides additional courses that could complement your career goals: AGR 101 (AG 901), AGR 102 (AG 903), AGR 104 (AG 904), AGR 103 (AG 905) and AGR 122 (AG 906)

#### \*For SIUC, the following courses are recommended:

(NOTE: SIUC will accept applicable credits beyond the Associate degree and up to 78 credits)

Offers an Animal Science degree with three specializations: production, equine science and pre-veterinary science. Take MAT 108 (MATH 108) or MAT 109 (MATH 109) or MAT 111 (MATH 111) or MAT 131 (MATH 150). Take CHM 141 or higher-CHM 151 (CHEM140A or CHEM 200/201), BIO 101 (BIOL 211). Select AGR Electives/General Electives with the guidance of your academic adviser.

FOR PRODUCTION option, take CHM 142 or higher-CHM 152 (CHEM 140B or CHEM 210/211). Select AG Electives and General Electives with the guidance of your academic adviser.

FOR EQUINE SCIENCE option: Take CHM 142 or higher-CHM 152 (CHEM 140B or CHEM 210/211). Select AG Electives or General Electives with the guidance of your academic adviser.

FOR PRE-VETERINARY MEDICINE option: Take CHM 151 (CHEM 200/201) in lieu of CHEM 140A. MAT 109 (MATH 109), CHM 152 (CHEM 210/211/212), CHM 201 (CHEM 340/341), PHY 155/156 (PHYS 203 A,B/ and PHYS 253A,B) and BIO 101 (BIOL 211). Refer to the JALC Curriculum Guide prepared for PRE-VETERINARY MEDICINE.

#### For ISU, the following courses are recommended:

(Note: ISU will accept applicable credits beyond the associate degree and up to 70 semester hours from a two year institution)

Offers a major in AGRICULTURE with an Animal Science Sequence.

Take AGR 121 (AGR 170). Select one course from the following; AGR 101 (AGR 110), AGR 103 (AGR 120), AGR 122 (AGR 130), AGR 102 (AGR 150) or AGR 104 (AGR 157).

Take BIO 102 (BSC 196) or BIO 101 (BSC 197), CHM 141/142 or 151/152 (CHE 140/141), CHM 201((CHEM 230/231), MAT 116 (MAT 120) or MAT 111 (MAT 144) or MAT 131 (MAT 145).

Take one of the following course to meet the AMALI graduation requirement (ANT 111, 216, GEO 112, HIS 213, HUM120, or PHL 200, 260) Take one of the following to meet the BS SMT graduation requirement (ANT 240, BIO 105, 226,

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240, 275, BUS 121, CHM 142, 152, 201, CPS 202, MAT 117, 120, 125, 201,202, 282, PHS 107, PHY 156 or 206).

**\*For WIU, the following courses are recommended:**

Offers a Minor in Animal Science

-Take AGR 121 (ANSC 112).

**UIUC**

Offers an Animal Sciences major under the College of Agricultural, Consumer and Environmental Sciences (ACES).

Take AGR 121 (ANSC 100)

Take CHM 151 (CHEM 102/103), CHM 152 (CHEM 104/105). Take MAT 131(MATH 220) or MAT 117 (MATH 234). Either of these MAT courses also satisfies the required UIUC Quantitative Reasoning 1 requirement. Take ECO 202 (ECON 102), SPE 115 (CMN 101), BIO 226 (MCB 100/101) and MAT 120 or 282 (STAT 100). In addition, complete the third level course of a foreign language (FRE 201, GER 201 or SPN 201)

*John A. Logan College reserves the right to modify this curriculum guide as needed. Please verify with your academic advisor the accuracy and time lines of this document.*





John A. Logan College

# Associate in Arts in Agriculture-Crop Science and Soil Science

Transfer Curriculum 000AA0086  
Minimum Hours: 62  
Major Code: L.1 011201  
Effective Date: Fall 2019

## GENERAL EDUCATION (IAI GECC, 37-38 credits)

The Illinois Articulation Initiative (IAI) General Education Core Curriculum (GECC) requires 12 to 13 courses. Courses selected to meet IAI GECC requirements may also meet course requirements for a specific major.

### IAI COMMUNICATION (9 HOURS)

	Sem.	Grade
ENG 101 or ENG 113 (C grade or higher)	_____	_____
ENG 102 (C grade or higher)	_____	_____
COM 115 Speech	_____	_____

### IAI HUMANITIES AND FINE ARTS (9 HOURS)

At least one course must be an IAI Fine Arts elective and one course must be an IAI Humanities elective.

	Sem.	Grade
Fine Arts Elective	_____	_____
Humanities Elective	_____	_____
Humanities or Fine Arts Elective	_____	_____

#### IAI Fine Arts Electives:

Art: ART 111, 220, 221, 291

Literature: LIT 275

Music: MUS 105, 225

Theater: THE 113

#### IAI Humanities Electives:

Foreign Language: FRE 202, GER 202, SPN 202

History: HIS 101, 102, 213

Literature: LIT 211, 212, 231, 232, 235, 264, 280, 281, 284, 295

Philosophy: PHL 111, 121, 131, 200, 260

### IAI MATHEMATICS (1 COURSE)

	Sem.	Grade
MAT 117 (4) or MAT 131 (5) or MAT 119 or MAT 120 (3) or MAT 282 (3) or MAT 116 (3)	_____	_____

### IAI SOCIAL AND BEHAVIORAL SCIENCES (9 HOURS)

At least two different disciplines (course prefixes) must be represented.

	Sem.	Grade
Social Science Elective (3)	_____	_____
Social Science Elective (3)	_____	_____
Social Science Elective (3)	_____	_____

#### IAI Social and Behavioral Sciences Electives:

Anthropology: ANT 111, 202, 216, 240

Economics: ECO 201, 202

Geography: GEO 112

History: HIS 103, 104, 201, 202

Political Science: PSC 131, 211, 212, 213, 289

Psychology: PSY 132, 200, 203, 262

Sociology: SOC 133, 221, 263, 264

### IAI PHYSICAL/LIFE SCIENCES (7-8 HOURS)

One course must include a lab component.

	Sem.	Grade
BIO 102 (4) or Life science Elective	_____	_____
CHM 151 (5)	_____	_____

#### IAI Life Science Electives:

Biology: BIO 100, 101, 105, 225

Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B

Life Science: SCI 215

#### IAI Physical Science Electives:

Chemistry: CHM 141, 151

Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B

Physical Science: PHS 102, 103, 105, 107

Physics: PHY 121, 155, 205

## NOTES AND INFORMATION

### MAJOR AND GENERAL ELECTIVE REQUIREMENTS

(IAI GECC and major/elective credits must total a minimum of 62 hours for the degree.)

Select courses on this guide in accordance with the Articulation Notes.

Students planning to transfer to other four year institutions should follow the recommendations outlined in that colleges course catalog. Course equivalencies may be found on that college website or on the Transferology website at [www.itransfer.org](http://www.itransfer.org)

	Sem.	Grade
ORI 100 (1)	_____	_____
AGR 102 (4)	_____	_____
AGR 104 (3)	_____	_____
AGR 112 (3)	_____	_____
CHM 152(5) or General Elective	_____	_____
AGR Elective	_____	_____
AGR Elective	_____	_____
AGR Elective	_____	_____
General Elective	_____	_____

**ARTICULATION NOTES:** Consult your academic advisor and/or transfer institution to assess if any courses required for your major require a grade of C or higher and if there is a minimum grade point average needed for admission consideration into your major.

#### IAI Agriculture Major Panel:

Take AGR 102 (IAI AG 903), AGR 104 (IAI AG 904), AGR 112 (IAI AG 913), CHM 152 (IAI CHM 912), BIO 102 (IAI BIO 910-second course in sequence). In addition, select one mathematics course from MAT 117 or 131, MAT 120 or 282, or MAT 116. Depending on the transfer institution and with academic advisor assistance, select additional AGR courses from AGR101 (IAI AG 901), AGR 121 (IAI AG 902), AGR 103 (IAI AG 905) and AGR 122 (IAI AG 906).

**SIUC:** Under Crop, Soil and Environmental Management, SIUC offers Crop Production and Management (General Option), Crop Production and Management (Science option), Soil Science (Science Option) and Soil Science (General Option) (NOTE: SIUC will accept applicable/articulated credits beyond the Associate degree and up to 78 credits)

#### \*For Crop Production and Management (General Option)

Take MAT 108 (MATH 108). An approved substitute for MAT 108 is MAT 117 (MATH 140) or MAT 131 (MATH 150). Take CHM 141 (CHEM 140A). An approved substitute for CHEM 140A is CHM 151 (CHEM 200 and 201). Take AGR 104 (CSEM240). Take CHM 142 (CHEM 140B). CHM 152 (CHEM 210/211) is the approved substitute. Take AGR 102 (CSEM 200) and AGR 112 (AGSE 318). Select Agricultural Science Electives (10 credits) from AGR 101 (ABE 204), AGR 103 (HORT 220), HTH 100 (HND 101) AGR 122 (AGSE 170)

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#### For Crop Production and Management (Science Option)

Take MAT 108 (MATH 108). MAT 117 (MATH 140) or MAT 131 (MATH 150) are approved substitutes. Take CHM 151 (CHEM 200/201), CHM 152 (CHEM 210/211) and CHM 201 (CHEM 340/341). Take AGR 104 (CSEM 240). Take AGR 102 (CSEM 200). Take MAT 109 (MATH 109) and MAT 117 (MATH 140), PHY 155/156 (PHYS 203A/203B).

#### \*For Soil Science (Science Option)

Take CHM 151 (CHEM 200/201), CHM 152 (CHEM210/211), CHM 201 (CHEM 340/341), MAT 109 (MATH 109) and MAT 117 (MATH 140). MAT 131 (MATH 150) is an approved substitute for MAT 140. Take PHY 155/156 (PHYS 203A/203B). Take AGR 104 (CSEM 240) and AGR 102 (CSEM 200).

**For Soil Science (General Option)**

Take MAT 108 (MATH 108). MAT 109 (MATH 109), MAT 117 (MATH 140) or MAT 131 (MATH 150) are approved substitutes. Take AGR 104 (CSEM 240), AGR 102 (CSEM 200). Take AGR 112 (AGSE 318) AGR 101 (ABE 204), AGR 103 (HORT 220) and HTH 100 (HND 100) as Agricultural Science Elective. Take CHM 141 (CHEM 140A) and CHM 142 (CHEM 140B). CHM 151/152 (CHEM 200/201 and CHEM 210/211) are approved substitute for CHM 141/142.

**ISU:** Under the Agriculture major, ISU offers a Crop and Soil Science sequence. Take AGR 101 (AGR 110), AGR 103 (AGR 120), AGR 102 (AGR 150), AGR 104 (AGR 157), CHM 141/142 or CHM 151/152 (CHE 140/141), PHY 121 (PHY 105) and MAT 116 (MAT 120) or MAT 111 (MAT 144) or MAT 131 (MAT 145). Take one of the following courses to meet the AMALI graduation requirement (ANT 111, 216, GEO 112, HIS 213, HUM 120, PHL 200 or 260) Take one of the following to meet the BS SMT graduation requirement (ANT 240, BIO 105, 226, 240, 275, BUS 121, CHM 142, 152, 201, CPS 202, MAT 117, 120, 125, 201, 202, 282, PHS 107, PHY 156 or 206).

**UIUC:** Offers Crop Sciences major with concentration in Crops  
Offers Crop Sciences with concentration in Crops.

Take CHM 151 (CHEM 102/103), CHM 152 (CHEM 104/105), MAT 131 ((MATH 220) or MAT 117 (MATH 234), CHM 201 and CHM 202 (CHEM 232/233), SPE 115 (CMN 101), AGR 102 (CPSC 112), BIO 226 (MCB 100/101), AGR 104 (NRES 201), ENG 101/102 (RHET 105) and FRE 201 or GER 201 or SPN 201 (third level of a language is required to graduate from the College of Agricultural, Consumer and Environmental Sciences-ACES).

**WIU:** Under the Agriculture major, WIU offer a minor in Agronomy.

Take AGR 102 (AGRN 176) and AGR 104 (AGRN 278)

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John A. Logan College

# Associate in Arts in Agriculture-General Agriculture

Transfer Curriculum 000AA0086

Minimum Hours: 63

Major Code: 1.1 010000

Effective Date: Fall 2019

## GENERAL EDUCATION (IAI GECC, 37-38 credits)

The Illinois Articulation Initiative (IAI) General Education Core Curriculum (GECC) requires 12 to 13 courses. Courses selected to meet IAI GECC requirements may also meet course requirements for a specific major.

### IAI COMMUNICATION (3 COURSES)

	Sem.	Grade
ENG 101 or ENG 113 (C grade or higher)	_____	_____
ENG 102 (C grade or higher)	_____	_____
COM 115 Speech	_____	_____

### IAI HUMANITIES AND FINE ARTS (3 COURSES)

At least one course must be an IAI Fine Arts elective and one course must be an IAI Humanities elective.

	Sem.	Grade
Fine Arts Elective	_____	_____
Humanities Elective	_____	_____
Humanities or Fine Arts Elective	_____	_____

#### IAI Fine Arts Electives:

Art: ART 111, 220, 221, 291

Literature: LIT 275

Music: MUS 105, 225

Theater: THE 113

#### IAI Humanities Electives:

Foreign Language: FRE 202, GER 202, SPN 202

History: HIS 101, 102, 213

Literature: LIT 211, 212, 231, 232, 235, 264, 280, 281, 284, 295

Philosophy: PHL 111, 121, 131, 200, 260

### IAI MATHEMATICS (1 COURSE)

	Sem.	Grade
MAT 117 (4) or MAT 131 (5)	_____	_____

### IAI SOCIAL AND BEHAVIORAL SCIENCES (3 COURSES)

At least two different disciplines (course prefixes) must be represented.

	Sem.	Grade
Social Science Elective	_____	_____
Social Science Elective	_____	_____
Social Science Elective	_____	_____

#### IAI Social and Behavioral Sciences Electives:

Anthropology: ANT 111, 202, 216, 240

Economics: ECO 201, 202

Geography: GEO 112

History: HIS 103, 104, 201, 202

Political Science: PSC 131, 211, 212, 213, 289

Psychology: PSY 132, 200, 203, 262

Sociology: SOC 133, 221, 263, 264

### IAI PHYSICAL/LIFE SCIENCES (2 COURSES)

One course must be at least 4 credits and include a lab component.

	Sem.	Grade
BIO 100 (4)	_____	_____
CHM 141 (4) or CHM 151 (5)	_____	_____

## NOTES AND INFORMATION

### MAJOR AND GENERAL ELECTIVE REQUIREMENTS

(IAI GECC and major/elective credits must total a minimum of 64 hours for the degree.) Select courses on this guide in accordance with the Articulation Notes. Students planning to transfer to other four year institutions should follow the recommendations outlined in that colleges course catalog. Course equivalencies may be found on that college website or on the Transferology website at [www.itransfer.org](http://www.itransfer.org)

	Sem.	Grade
ORI 100 (1)	_____	_____
AGR 122 (3)	_____	_____
AGR 112 (3)	_____	_____
AGR 121 (4)	_____	_____
AGR 102 (4)	_____	_____
AGR 101 (3)	_____	_____
AGR 104 (3)	_____	_____
AGR 103 (3)	_____	_____

**ARTICULATION NOTES:** Consult your academic advisor and/or transfer institution to assess if any courses required for your major require a grade of C or higher and if there is a minimum grade point average needed for admission consideration into your major.

### SIUC Transfer Information

(NOTE: SIUC will accept applicable/articulated credits beyond the Associate degree and up to 78 credits)

Offers a General Agriculture specialization under the Agriculture Systems and Education major.

Take MAT 108-4 (MATH 108). Approved substitutes for MATH 108 include MAT 109-3 (MATH 109), MAT 117-4 (MATH 140) or MAT 131-5 (MATH 150). NOTE: only MAT 117 or MAT 131 are IAI approved Mathematics courses. A CHEM 106 equivalent is not offered. Approved substitutes include CHM 141-4 (CHEM 140A) or CHM 151-5 (CHEM 200/201). Take BIO 100-4 (PLB115)

Take AGR 122-3 (AGSE 170), AGR 112-3 (AGSE 318), AGR 121-4 (ANS 121/122), AGR 102-4 (CSEM 200), AGR 101-3 (ABE 204). Take AGR 104-3 (CSEM 240) as a CSEM Elective. As Agriculture Minor Electives take AGR 103-3 (HORT 220) and HTH 100-3 (HND 101)

John A. Logan College reserves the right to modify this curriculum guide as needed. Please verify with your academic advisor the accuracy and time lines of this document.





# Associate in Arts in Agriculture-Horticulture

Transfer Curriculum 000AA0086  
Minimum Hours: 62  
Major Code: 1.1 010699  
Effective Date: Fall 2019

## GENERAL EDUCATION (IAI GECC, 37-38 credits)

The Illinois Articulation Initiative (IAI) General Education Core Curriculum (GECC) requires 12 to 13 courses. Courses selected to meet IAI GECC requirements may also meet course requirements for a specific major.

### IAI COMMUNICATION (9 HOURS)

	Sem.	Grade
ENG 101 or ENG 113 (C grade or higher)	_____	_____
ENG 102 (C grade or higher)	_____	_____
COM 115 Speech	_____	_____

### IAI HUMANITIES AND FINE ARTS (9 HOURS)

At least one course must be an IAI Fine Arts elective and one course must be an IAI Humanities elective.

	Sem.	Grade
Fine Arts Elective	_____	_____
Humanities Elective	_____	_____
Humanities or Fine Arts Elective	_____	_____

#### IAI Fine Arts Electives:

Art: ART 111, 220, 221, 291  
Literature: LIT 275  
Music: MUS 105, 225  
Theater: THE 113

#### IAI Humanities Electives:

Foreign Language: FRE 202, GER 202, SPN 202  
History: HIS 101, 102, 213  
Literature: LIT 211, 212, 231, 232, 235, 264, 280, 281, 284, 295  
Philosophy: PHL 111, 121, 131, 200, 260

### IAI MATHEMATICS (1 COURSE)

	Sem.	Grade
MAT 117 (4) or MAT 131 (5) or MAT 119 or MAT 120 (3) or MAT 282 (3) or MAT 116 (3)	_____	_____

### IAI SOCIAL AND BEHAVIORAL SCIENCES (9 HOURS)

At least two different disciplines (course prefixes) must be represented.

	Sem.	Grade
ECO 201 or Social Science Elective (3)	_____	_____
Social Science Elective (3)	_____	_____
Social Science Elective (3)	_____	_____

#### IAI Social and Behavioral Sciences Electives:

Anthropology: ANT 111, 202, 216, 240  
Economics: ECO 201, 202  
Geography: GEO 112  
History: HIS 103, 104, 201, 202  
Political Science: PSC 131, 211, 212, 213, 289  
Psychology: PSY 132, 200, 203, 262  
Sociology: SOC 133, 221, 263, 264

### IAI PHYSICAL/LIFE SCIENCES (7-8 HOURS)

One course must include a lab component.

	Sem.	Grade
BIO 102 (4) or Life Science Elective	_____	_____
CHM 151 (5) or Physical Science Elective	_____	_____

#### IAI Life Science Electives:

Biology: BIO 100, 101, 105, 225  
Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B  
Life Science: SCI 215

#### IAI Physical Science Electives:

Chemistry: CHM 141, 151  
Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B  
Physical Science: PHS 102, 103, 105, 107  
Physics: PHY 121, 155, 205

## NOTES AND INFORMATION

### MAJOR AND GENERAL ELECTIVE REQUIREMENTS

(IAI GECC and major/elective credits must total a minimum of 62 hours for the degree.) Select courses on this guide in accordance with the Articulation Notes. Students planning to transfer to other four year institutions should follow the recommendations outlined in that colleges course catalog. Course equivalencies may be found on that college website or on the Transferology website at [www.itransfer.org](http://www.itransfer.org)

	Sem.	Grade
ORI 100 (1)	_____	_____
AGR 103 (3)	_____	_____
AGR 112 (3)	_____	_____
CHM 152(5) or General Elective	_____	_____
General Elective	_____	_____
AGR Elective	_____	_____
AGR Elective	_____	_____
AGR Elective	_____	_____

**ARTICULATION NOTES:** Consult your academic advisor and/or transfer institution to assess if any courses required for your major require a grade of C or higher and if there is a minimum grade point average needed for admission consideration into your major.

#### IAI Agriculture Major Panel:

Take AGR 103 (IAI AG 905) and AGR 112 (IAI AG 913). Take CHM 152 (IAI CHM 912) and BIO 102 (IAI BIO 910-second course in the sequence). Take MAT 131 or 117, MAT 120 or 282 or MAT 116. Two courses in MAT is recommended. Take CHM 141 or 151 or PHY 155. Take BIO 101 or 102, however, BIO 102 is preferred. ECO 201 is recommended.

Take additional AGR course based on career goals and the requirements/recommendations of your transfer institution. Select from AGR 101 (IAI AGR 901), AGR 121 (IAI AGR 902), AGR 102 (IAI AGR 903), AGR 104 (IAI AGR 904), AGR 122 (IAI AGR 906) or AGR 111 (IAI AGR 911)

**SIUC:** SIUC offers Horticulture as a major with three specializations: Production Horticulture, Landscape Horticulture and Turf Management. Take MAT 108 (MATH 108). An acceptable substitute for MAT 108 is MAT 117 (MATH 140) or MAT 131 (MATH 150). Take CHM 141 (CHEM 140A). An acceptable substitute for CHM 141 is CHM 151 (CHEM 200/201).

In addition:

--**For the Landscape Horticulture option**, take AC200/201 (ACCT 210) as meeting a Business Course requirement. Take AGR 110 (AGSE 318). Take CHM 142 (CHM 140B). CHM 152 (CHEM 210/211) is an acceptable substitute for CHM 142.

--**For Production Horticulture (General Option)**, take CHM 142 (CHEM 140B), ACC 200/201 (ACCT 210) as meeting a Business Course requirement. Take AGR 103 (HORT 220) and AGR 104 (CSEM 240).

--**For Production Horticulture (Science Option)**, take CHM 152 (CHEM 210/211) and CHM 201 (CHEM 340/341). Take MAT 109 (MATH 109). MAT 117 (MATH 140) or MAT 131 (MATH 150) are approved substitutes for MAT 109 (MATH 109). Take PHY 155 (PHYS 203A) and PHY 156 (PHYS 203B). Take AGR 103 (HORT 220) and AGR 104 (CSEM 240). Take AGR 112 (AGSE 318) as an Ag. Elective.

--**For Turf Grass Management**, Take CHM 142 (CHEM 140B), approved substitute is CHM 152 (CHEM 201/211). Take ACC 200/201 (ACCT 210). Take AGR 103 (HORT 220) and AGR 104 (CSEM 240). Take AGR 112 (AGSE 318) as an Ag. Elective.

(NOTE: SIUC will accept applicable/articulated credits beyond the Associate degree and up to 78 credits)

**ISU:** Under the Agriculture major, offers a Horticulture and Landscape Management Sequence

Take ACC 200 and 201 (ACC 131), ECO 201 and 202 (ECO 105), BUS 222 (FIL 185), MAT 116 (MAT 120), CHM 141 or CHM 151 (CHE 140). Take AGR 101 (AGR 110), AGR 103 (AGR 120), AGR 122 (AGR 130), AGR 104 (AGR 157) and AGR 102 (AGR 150).

Take one of the following to satisfy the AMALI graduation requirement; ANT 111, 216, GEO 112, HIS 213, HUM 120 or PHL 200, 260. Take one of the following to satisfy the Bachelor of Science SMT (Science, Mathematics or Technology) graduation requirement: ANT 240, BIO 226, BUS 121, CHM 142,152, 201, CPS 202, MAT 117, 120, 125, 201, 221, 282, PHS 107, PHY 156 or 206

**UIUC:** Offers Crop Sciences major with concentration in Horticultural Food Systems.

Take CHM 151 (CHEM 102/103), CHM 152 (CHEM 104/105), MAT 131 (MATH 220) or MAT 117 (MATH 234). Take ECO 202 (ECON 102), CHM 201 (CHEM 232/233), AGR 102 (CPSC 112), BIO 226 (MCB 100/101), AGR 104 (NRES 201), ENG 101/102 (RHET 105) and FRE 201, GER 201 or SPN 201 (Third Level of a Language).

**WIU:** Offers an Interdisciplinary Minor in Horticulture

Take AGR 103 (HORT 180). Electives from the Plant Science grouping, take AGR 104 (AGRN 278).

*John A. Logan College reserves the right to modify this curriculum guide as needed. Please verify with your academic advisor the accuracy and time lines of this document.*



John A. Logan College

# Associate in Arts Degree in Art

Transfer Curriculum 000AA0086  
Associate in Arts: 63 Hrs. Min.  
Major Code: 1.1500701  
Effective Date: Fall 2019

## GENERAL EDUCATION (IAI GECC, 37 CREDITS)

The Illinois Articulation Initiative (IAI) General Education Core Curriculum (GECC) requires 12 to 13 courses from the following five areas. Courses selected to meet IAI GECC requirements may also meet course requirements for a specific major.

### IAI COMMUNICATIONS (3 COURSES)

	Sem.	Grade
ENG 101 or ENG 113 (C grade or higher)	_____	_____
ENG 102 (C grade or higher)	_____	_____
COM 115 Speech	_____	_____

### IAI HUMANITIES AND FINE ARTS (3 COURSES)

At least one course must be an IAI Fine Arts elective and one course must be an IAI Humanities elective.

	Sem.	Grade
ART 220	_____	_____
ART 221	_____	_____
Humanities Elective	_____	_____

#### IAI Humanities Electives:

Foreign Language: FRE 202, GER 202, SPN 202  
History: HIS 101, 102, 213  
Literature: LIT 210, 230, 235, 264, 280, 281, 284, 295  
Philosophy: PHL 111, 121, 131, 200, 260

### IAI MATHEMATICS (1 COURSE)

	Sem.	Grade
MAT Elective	_____	_____

#### IAI Mathematics Electives:

MAT 112 or MAT 113, MAT 116, MAT 117, MAT 119 or MAT 120, MAT 125/CPS 202, MAT 131, MAT 201, MAT 202, MAT 282

### IAI SOCIAL AND BEHAVIORAL SCIENCES (3 COURSES)

At least two different disciplines (course prefixes) must be represented.

	Sem.	Grade
PSY 132 or Social Science Elective	_____	_____
SOC 133 or Social Science Elective	_____	_____
Social Science Elective	_____	_____

#### IAI Social and Behavioral Sciences Electives:

Anthropology: ANT 111, 202, 216, 240  
Economics: ECO 201, 202  
Geography: GEO 112  
History: HIS 103, 104, 201, 202  
Political Science: PSC 131, 211, 212, 213, 289  
Psychology: PSY 132, 200, 203, 262  
Sociology: SOC 133, 215, 263, 264

### IAI PHYSICAL/LIFE SCIENCES (2 COURSES)

One course must be at least 4 credit hours and include a lab component.

	Sem.	Grade
Life Science Elective	_____	_____
Physical Science Elective	_____	_____

#### IAI Life Science Electives:

Biology: BIO 100, 101, 105, 225  
Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B  
Life Science: SCI 215

#### IAI Physical Science Electives:

Chemistry: CHM 141, 151  
Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B  
Physical Science: PHS 102, 103, 105, 107  
Physics: PHY 121, 155, 205

## MAJOR AND GENERAL ELECTIVE REQUIREMENTS (IAI GECC and major/elective credits must total a minimum of 63 hours, of which 25-26 must be general elective credits.)

Consult with the transfer institution to determine if certain courses require a grade of "C" or higher, or if there is a minimum grade point average for admission to your declared major. Please select courses on this guide in accordance with the Articulation Notes for your transfer institution.

	Sem.	Grade
ORI 100	_____	_____
ART 101	_____	_____
ART 102	_____	_____
ART 180	_____	_____
ART 256	_____	_____
ART 223 or Elective	_____	_____
Foreign Language I or Elective	_____	_____
Foreign Language II or Elective	_____	_____
Elective	_____	_____
Elective	_____	_____

**IAI AND DEGREE INFORMATION:** This guide follows the recommendations for the IAI Art Major panel.

**SIUC TRANSFER INFORMATION:** For the non-BFA major tracks, ART 220, 221, and 223 are required. In addition, completion of the two courses in International/Global Studies is required. For Art Studio and History options in Liberal Arts, ART 220 and 223 will satisfy this requirement. Two semesters of the same foreign language is also required (French or German are recommended). Credit applicable toward the studio course requirements include; ART 250, 255, and 260.

**SIUE TRANSFER INFORMATION:** For the Art History option, ART 220, 221, and two semesters of the same foreign language are required. For the Art Studio option, ART 101, 102, 180, 220, 221, 299I, 250, 260, and 296 are applicable to satisfy degree requirements. PHL 121 is recommended.

**EIU TRANSFER INFORMATION:** Studio Art is offered with a 2-D or 3-D option. The recommendations are the same for both options: ART 101, 102, 180, 220, 221, 256, 260, and 295. ART 250 and ART 255 or GRD 110 will satisfy the two and three dimensional emphasis requirements. Two semesters of the same foreign language are also required.

**ISU TRANSFER INFORMATION:** Art 220 and 221 will satisfy core requirements, and ART 255 and 260 will satisfy the drawing and painting options. Students should select one course from ANT 111, ANT 216, GEO 112, HIS 103, HIS 104, HUM 120, PHL 200, PHL 260, PSC 120, or PSC 212 to satisfy the Global Studies requirement.





John A. Logan College

# Associate in Arts Degree in Art Education

Transfer Curriculum 000AA0086  
Associate in Arts: 64 Hrs. Min.  
Major Code: 1.1131302  
Effective Date: Fall 2019

## GENERAL EDUCATION (IAI GECC, 37-38 CREDITS)

The Illinois Articulation Initiative (IAI) General Education Core Curriculum (GECC) requires 12 to 13 courses from the following five areas. Courses selected to meet IAI GECC requirements may also meet course requirements for a specific major.

### IAI COMMUNICATIONS (3 COURSES)

	Sem.	Grade
ENG 101 or ENG 113 (C grade or higher)	_____	_____
ENG 102 (C grade or higher)	_____	_____
COM 115 Speech	_____	_____

### IAI HUMANITIES AND FINE ARTS (3 COURSES)

At least one course must be an IAI Fine Arts elective and one course must be an IAI Humanities elective.

	Sem.	Grade
ART 220	_____	_____
ART 221	_____	_____
Humanities Elective	_____	_____

#### IAI Humanities Electives:

Foreign Language: FRE 202, GER 202, SPN 202  
History: HIS 101, 102, 213  
Literature: LIT 210, 230, 235, 264, 280, 281, 284, 295  
Philosophy: PHL 111, 121, 131, 200, 260

### IAI MATHEMATICS (1 COURSE)

	Sem.	Grade
MAT Elective	_____	_____

#### IAI Mathematics Electives:

MAT 112, MAT 113, MAT 116, MAT 117, MAT 119, MAT 120, MAT 125/CPS 202, MAT 131, MAT 201, MAT 202, MAT 282

### IAI SOCIAL AND BEHAVIORAL SCIENCES (3 COURSES)

At least two different disciplines (course prefixes) must be represented.

	Sem.	Grade
PSY 132	_____	_____
SOC 133	_____	_____
Social Science Elective	_____	_____

#### IAI Social and Behavioral Sciences Electives:

Anthropology: ANT 111, 202, 216, 240  
Economics: ECO 201, 202  
Geography: GEO 112  
History: HIS 103, 104, 201, 202  
Political Science: PSC 131, 211, 212, 213, 289  
Psychology: PSY 132, 200, 203, 262  
Sociology: SOC 133, 221, 263, 264

### IAI PHYSICAL/LIFE SCIENCES (2 COURSES)

One course must be at least 4 credit hours and include a lab component.

	Sem.	Grade
Physical Science Elective	_____	_____
Life Science Elective	_____	_____

#### IAI Life Science Electives:

Biology: BIO 100, 101, 105, 110, 225  
Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B  
Life Science: SCI 215

#### IAI Physical Science Electives:

Chemistry: CHM 141, 151  
Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B  
Physical Science: PHS 102, 103, 105, 107  
Physics: PHY 121, 155, 205

## MAJOR AND GENERAL ELECTIVE REQUIREMENTS (IAI GECC and major/elective credits must total a minimum of 63 hours, of which 24-25 must be general elective credits.)

Consult with the transfer institution to determine if certain courses require a grade of "C" or higher, or if there is a minimum grade point average for admission to your declared major. Please select courses on this guide in accordance with the Articulation Notes for your transfer institution.

	Sem.	Grade
ORI 100	_____	_____
ART 101	_____	_____
ART 102	_____	_____
ART 180	_____	_____
ART 256	_____	_____
EDC 202 or Elective	_____	_____
EDC 203 or Elective	_____	_____
Elective	_____	_____
Elective	_____	_____
Elective	_____	_____

**IAI MAJOR AND PROGRAM INFORMATION:** This guide includes coursework to meet IAI Major Panel recommendations. Consult with your Academic Advisor and transfer institution regarding requirements for a portfolio review prior to transfer. Studio courses should be selected from at least two media in consultation with an Art Advisor. Studio Course options include: ART 165, 255, 205, 260, 250, 290, and/or 299i.

**TEACHER EDUCATION PROGRAM:** To be considered for admission into a formal Teacher Education Program, qualifying scores on the TAP, ACT plus writing, or SAT must be submitted. Students must earn a grade of "C" or higher in all courses for an endorsement and required in the major. Students must also meet the minimum grade point average required for consideration into the TEP (typically a minimum of 2.5, but may be higher depending on the institution or program option selected).

Helpful tips for applying to a Teacher Education Program may be found [here](#):

**SIUC TRANSFER INFORMATION:** ART 250 and 260 are recommended studio courses. Students should either take ART 220 and 223 or select two courses from ANT 111, ANT 216, ART 220, ART 221, ART 223, ECO 150i, GEO 112, GEO 215, HIS 101, HIS 102, HIS 103, HIS 104, HIS 112, HIS 213, PHL 200, PSC 212, PSC 289, and/or SOC 263 to satisfy the International Coursework requirement.

**SIUE TRANSFER INFORMATION:** ART 202, 299i, 250, 260 and 296, as well as EDC 200 and 208 are required. PHL 121 is recommended.

**EIU TRANSFER INFORMATION:** PSC 131 is required. EDC 203, ART 255, ART 260, ART 295, and GRD 110 are also required.

**ISU TRANSFER INFORMATION:** ART 255 and ART 260 are required. Students should select one course from ANT 111, ANT 216, GEO 112, HIS 103, HIS 104, HUM 120, PHL 200, PHL 260, PSC 120, or PSC 212 to satisfy the Global Studies requirement.



John A. Logan College

# Associate in Arts Degree in Associate in Arts

Transfer Curriculum 000AA0086  
Associate in Arts: 63 Hrs. Min.  
Major Code: 1.1240101  
Effective Date: Fall 2019

## GENERAL EDUCATION (IAI GECC, 37-38 CREDITS)

The Illinois Articulation Initiative (IAI) General Education Core Curriculum (GECC) requires 12 to 13 courses from the following five areas. Courses selected to meet IAI GECC requirements may also meet course requirements for a specific major.

### IAI COMMUNICATIONS (3 COURSES)

	Sem.	Grade
ENG 101 or ENG 113 (C grade or higher)	_____	_____
ENG 102 (C grade or higher)	_____	_____
COM 115 Speech	_____	_____

### IAI HUMANITIES AND FINE ARTS (3 COURSES)

At least one course must be an IAI Fine Arts elective and one course must be an IAI Humanities elective.

	Sem.	Grade
Fine Arts Elective	_____	_____
Humanities Elective	_____	_____
Humanities or Fine Arts Elective	_____	_____

#### IAI Fine Arts Electives:

Art: ART 111, 220, 221, 291  
Literature: LIT 275  
Music: MUS 105, 225  
Theater: THE 113

#### IAI Humanities Electives:

Foreign Language: FRE 202, GER 202, SPN 202  
History: HIS 101, 102, 213  
Literature: LIT 210, 230, 235, 264, 280, 281, 284, 295  
Philosophy: PHL 111, 121, 131, 200, 260

### IAI MATHEMATICS (1 COURSE)

	Sem.	Grade
MAT Elective	_____	_____

#### IAI Mathematics Electives:

MAT 112, MAT 113, MAT 116, MAT 117, MAT 119, MAT 120, **MAT 125/CPS 202\*\***, MAT 131, **MAT 201††**, **MAT 202†**, **MAT 209††**, **MAT 282†††**

### IAI SOCIAL AND BEHAVIORAL SCIENCES (3 COURSES)

At least two different disciplines (course prefixes) must be represented.

	Sem.	Grade
Social Science Elective	_____	_____
Social Science Elective	_____	_____
Social Science Elective	_____	_____

#### IAI Social and Behavioral Sciences Electives:

Anthropology: ANT 111, 202, 216, 240  
Economics: ECO 201, 202  
Geography: GEO 112  
History: HIS 103, 104, 201, 202  
Political Science: PSC 131, 211, 212, 213, 289  
Psychology: PSY 132, 200, 203, 262  
Sociology: SOC 133, 221, 263, 264

### IAI PHYSICAL/LIFE SCIENCES (2 COURSES)

One course must be at least 4 credit hours and include a lab component.

	Sem.	Grade
Life Science Elective	_____	_____
Physical Science Elective	_____	_____

#### IAI Life Science Electives:

Biology: BIO 100, 101, 105, 225  
Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B  
Life Science: SCI 215

#### IAI Physical Science Electives:

Chemistry: CHM 141, 151  
Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B  
Physical Science: PHS 102, 103, 105, 107  
Physics: PHY 121, 155, 205

## MAJOR AND GENERAL ELECTIVE REQUIREMENTS (IAI GECC and major/elective credits must total a minimum of 62 hours, of which 24-25 must be general elective credits.)

Consult with the transfer institution to determine if certain courses require a grade of "C" or higher, or if there is a minimum grade point average for admission to your declared major. Please select courses on this guide in accordance with the Articulation Notes for your transfer institution.

	Sem.	Grade
ORI 100 (1)	_____	_____
Elective	_____	_____
Elective	_____	_____
Elective	_____	_____
Elective	_____	_____
Elective	_____	_____
Elective	_____	_____
Elective	_____	_____
Elective	_____	_____
Elective	_____	_____
Elective	_____	_____

**GENERAL ELECTIVES:** Electives may include all courses with the following prefixes, as well as specific courses listed below:

AFS, AGR, AMS, ANT, ART, BIO, CHM, COM, CPS, EDC, EGR, FRE, GEO, GER, HIS, HTH, HUM, INT, LIT, MAT, MUS, PED\*, PEDE, PHL, PHS, PHY, PSC, PSY, REC, SCI, SOC, SOCW, SPM, SPN, THE, and VOL

ACC.....	200, 201, 202
BUS .....	110, 121, 222, 235
CIS .....	207
CRJ.....	103, 105, 218, 223
ECE .....	160, 245, 260
ECO .....	201, 202
ENG .....	101, 102, 103, 113
IDS .....	199
ASL .....	141, 142
ITD .....	152, 200, 205
LIN .....	101, 102
MAT .....	108, 109, 111, 113, 116, 117, 120, 125**, 131, 201††, 202†, 205††, 208, 209††, 221***, 282†††
ORI .....	100

\*No more than four (4) credit hours of PED courses may be used as general electives.

\*\*Fall only, odd numbered years

\*\*\*Spring only, even numbered years

†Fall Only

††Spring only

†††Summer only



John A. Logan College

# Associate in Arts Degree in Business

Transfer Curriculum 000AA0086

Associate in Arts: 63 Hrs. Min.

Major Code: 1.1 520201

Effective Date: Fall 2019

## GENERAL EDUCATION (IAI GECC, 37-38 CREDITS)

The Illinois Articulation Initiative (IAI) General Education Core Curriculum (GECC) requires 12 to 13 courses from the following five areas. Courses selected to meet IAI GECC requirements may also meet course requirements for a specific major.

### IAI COMMUNICATIONS (3 COURSES)

	Sem.	Grade
ENG 101 (C grade or higher)	_____	_____
ENG 102 (C grade or higher)	_____	_____
COM 115 Speech	_____	_____

### IAI HUMANITIES AND FINE ARTS (3 COURSES)

At least one course must be an IAI Fine Arts elective and one course must be an IAI Humanities elective.

	Sem.	Grade
Fine Arts Elective	_____	_____
PHL 111 or Humanities Elective	_____	_____
PHL 121 or Humanities or Fine Arts Elective	_____	_____

#### IAI Fine Arts Electives:

Art: ART 111, 220, 221, 291  
Literature: LIT 275  
Music: MUS 105, 225  
Theater: THE 113

#### IAI Humanities Electives:

Foreign Language: FRE 202, GER 202, SPN 202  
History: HIS 101, 102, 213  
Literature: LIT 210, 230, 235, 264, 280, 281, 284, 295  
Philosophy: PHL 111, 121, 131, 200, 260

### IAI MATHEMATICS (1 COURSE)

	Sem.	Grade
MAT 117 (4)	_____	_____

### IAI SOCIAL AND BEHAVIORAL SCIENCES (3 COURSES)

At least two different disciplines (course prefixes) must be represented.

	Sem.	Grade
ECO 201 (3)	_____	_____
ECO 202 (3)	_____	_____
PSY 132 or SOC 133 or Social Science Elective (3)	_____	_____

#### IAI Social and Behavioral Sciences Electives:

Anthropology: ANT 111, 202, 216, 240  
Economics: ECO 201, 202  
Geography: GEO 112  
History: HIS 103, 104, 201, 202  
Political Science: PSC 131, 211, 212, 213, 289  
Psychology: PSY 132, 200, 203, 262  
Sociology: SOC 133, 221, 263, 264

### IAI PHYSICAL/LIFE SCIENCES (2 COURSES)

One course must be at least 4 credit hours and include a lab component.

	Sem.	Grade
Life Science Elective	_____	_____
Physical Science Elective	_____	_____

#### IAI Life Science Electives:

Biology: BIO 100, 101, 105, 225  
Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B  
Life Science: SCI 215

#### IAI Physical Science Electives:

Chemistry: CHM 141, 151  
Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B  
Physical Science: PHS 102, 103, 105, 107  
Physics: PHY 121, 155, 205

## MAJOR AND GENERAL ELECTIVE REQUIREMENTS (IAI GECC and major/elective credits must total a minimum of 62 hours, of which 24-25 must be general elective credits.)

Consult with the transfer institution to determine if certain courses require a grade of "C" or higher, or if there is a minimum grade point average for admission to your declared major. Please select courses on this guide in accordance with the Articulation Notes for your transfer institution.

	Sem.	Grade
ORI 100 (1)	_____	_____
ACC 200 (3)	_____	_____
ACC 201 (3)	_____	_____
ACC 202 (3)	_____	_____
BUS 121 (3)	_____	_____
BUS 222 (3)	_____	_____
MAT 116 or Elective (3)	_____	_____
CIS 207 or Elective (3)	_____	_____
BUS 235 or Elective (3)	_____	_____

### ARTICULATION NOTES: Consult the transfer institution for specific requirements.

This guide follows the recommendations established by the IAI Business Major Panel which includes BUS 121 (IAI BUS 901), CIS 207 (BUS 902), ACC 200/201 (BUS 903) and ACC 202 (BUS 904). PHL 111 (IAI H4 904) is strongly recommended as is ECO 201, 202 and BUS 222.

**DEGREE INFORMATION:** This guide includes course typically required during the first two years for majors in Accounting, Business Administration, Business Economics, Finance, Management and Marketing. Completion of the IAI GECC component satisfies the lower division general education requirements required as a general graduation requirement at participating IAI institutions in Illinois. Complete the AA Degree in Business prior to transfer.

**SIUC TRANSFER INFORMATION:** Student should take ACC 200, 201 and 202, as well as MAT 116 and 117. Take BUS 121 (substitute for MGMT 208, FIN 208 or ACCT 208). Students should also take BUS 222, ECO 201 and ECO 202. **All majors in the College of Business must complete ENGL 291 (ENG 113) or MGMT 202 (BUS 235) as a Professional Business Core requirement. With ENG 101 and 102, ENG 113 will substitute for ENGL 291. In addition, BUS 235 is an approved substitute for MGMT 202.** SIUC policy allows for the transfer and applicability of up to 78 articulated credits toward BA/BS degree requirements.

**SIUE TRANSFER INFORMATION:** Take MAT 131 (MATH 150) with a C or better grade MAT 131 (MATH 150 will substitute for MAT 108 (MATH 120) and MAT 117 (MS 250). Take ACC 200, 201 and 202. Take ECO 201 and 202. Take CIS 207 or CPS 176. Take BUS 121. Take PHL 121.

**EIU TRANSFER INFORMATION:** Take MAT 116 (MAT 2120G). Take MAT 117 (MAT 2120G) or PHL 121 (PHL 1900G). Take ECO 201 (ECN 2801G), ECO 202 (ECN 2802G), BUS 222 (BUS 2750) and CIS 207 (BUS 1950).

**ISU TRANSFER INFORMATION:** Take MAT 117 or MAT 131. Take ECO 201 and 202. Take BUS 110, 121 and 222. Take ACC 200, 201 and 202. As a general graduation requirement, ISU requires an AMALI course (former Global Studies). GEO 112 (GEO 135) or PSC 112 (POL 151) should satisfy this requirement. All B.S. degrees require a SMT course (select one from BIO 226, 240, 275, CHM 142, 152, 201, PHS 107, MAT 117, 201, 202, 125, 221, BUS 121, PHY 156 or 206.



John A. Logan College

# Associate in Arts Degree in Business Education

Transfer Curriculum 000AA0086  
Associate in Arts: 64 Hrs. Min.  
Major Code: 1.1 131303  
Effective Date: Fall 2019

## GENERAL EDUCATION (IAI GECC, 37-38 CREDITS)

The Illinois Articulation Initiative (IAI) General Education Core Curriculum (GECC) requires 12 to 13 courses from the following five areas. Courses selected to meet IAI GECC requirements may also meet course requirements for a specific major.

### IAI COMMUNICATIONS (3 COURSES)

	Sem.	Grade
ENG 101 or ENG 113 (C grade or higher)	_____	_____
ENG 102 (C grade or higher)	_____	_____
COM 115 Speech	_____	_____

### IAI HUMANITIES AND FINE ARTS (3 COURSES)

At least one course must be an IAI Fine Arts elective and one course must be an IAI Humanities elective.

	Sem.	Grade
Fine Arts Elective	_____	_____
PHL 111 or Humanities Elective	_____	_____
Humanities or Fine Arts Elective	_____	_____

#### IAI Fine Arts Electives:

Art: ART 111, 220, 221, 291  
Literature: LIT 275  
Music: MUS 105, 225  
Theater: THE 113

#### IAI Humanities Electives:

Foreign Language: FRE 202, GER 202, SPN 202  
History: HIS 101, 102, 213  
Literature: LIT 210, 230, 235, 264, 280, 281, 284, 295  
Philosophy: PHL 111, 121, 131, 200, 260

### IAI MATHEMATICS (1 COURSE)

	Sem.	Grade
MAT 116 or MAT 119 or MAT 120 (3)	_____	_____

### IAI SOCIAL AND BEHAVIORAL SCIENCES (3 COURSES)

At least two different disciplines (course prefixes) must be represented.

	Sem.	Grade
ECO 201	_____	_____
ECO 202	_____	_____
PSY 132	_____	_____

### IAI PHYSICAL/LIFE SCIENCES (2 COURSES)

One course must be at least 4 credit hours and include a lab component.

	Sem.	Grade
Life Science Elective	_____	_____
Physical Science Elective	_____	_____

#### IAI Life Science Electives:

Biology: BIO 100, 101, 105, 225  
Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B  
Life Science: SCI 215

#### IAI Physical Science Electives:

Chemistry: CHM 141, 151  
Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B  
Physical Science: PHS 102, 103, 105, 107  
Physics: PHY 121, 155, 205

## MAJOR AND GENERAL ELECTIVE REQUIREMENTS (IAI GECC and major/elective credits must total a minimum of 62 hours, of which 24-25 must be general elective credits.)

Consult with the transfer institution to determine if certain courses require a grade of "C" or higher, or if there is a minimum grade point average for admission to your declared major. Please select courses on this guide in accordance with the Articulation Notes for your transfer institution.

	Sem.	Grade
ORI 100	_____	_____
ACC 200	_____	_____
ACC 201	_____	_____
ACC 202	_____	_____
BUS 222	_____	_____
BUS 121, 110 or Elective	_____	_____
EDC 202 or Elective	_____	_____
EDC 203 or Elective	_____	_____
CIS 207 or Elective	_____	_____
Elective	_____	_____

**TEACHER EDUCATION PROGRAM:** To be considered for admission into a formal Teacher Education Program, qualifying scores on the TAP, ACT plus writing, or SAT must be submitted. Students must earn a grade of "C" or higher in all courses for an endorsement and required in the major. Students must also meet the minimum grade point average required for consideration into the TEP (typically a minimum of 2.5, but may be higher depending on the institution or program option selected).

**SIUC TRANSFER INFORMATION:** ACC 200, 201, 202, BUS 121, 222, EDC 202, 203, ECO 201, 202, PSY 132, MAT 113 or 108 and 116 are required. This program is titled Business, Marketing, and Computer Education and is housed in Workforce Education and Development.

**EIU TRANSFER INFORMATION:** MAT 120, BUS 110, 222, CIS 207, ECO 201, 202, ACC 200, 201, 202, and EDC 203 are required.

**ISU TRANSFER INFORMATION:** ECO 201, 202, MAT 116 or 111, BUS 110, 121, 222, ACC 200, 201, 202 and EDC 202 are required. Students should select one course from ANT 111, ANT 216, GEO 112, HIS 103, HIS 104, HUM 120, PHL 200, PHL 260, PSC 120, or PSC 212 to satisfy the Global Studies requirement for all majors.

Helpful tips for applying to a Teacher Education Program may be found [here](#).





John A. Logan College

# Associate in Arts Degree in Criminal Justice

Transfer Curriculum 000AA0086  
Associate in Arts: 64 Hrs. Min.  
Major Code: 1.1 430107  
Effective Date: Fall 2019

## GENERAL EDUCATION (IAI GECC, 37-38 CREDITS)

The Illinois Articulation Initiative (IAI) General Education Core Curriculum (GECC) requires 12 to 13 courses from the following five areas. Courses selected to meet IAI GECC requirements may also meet course requirements for a specific major.

### IAI COMMUNICATIONS (3 COURSES)

	Sem.	Grade
ENG 101 or ENG 113 (C grade or higher)	_____	_____
ENG 102 (C grade or higher)	_____	_____
COM 115 Speech	_____	_____

### IAI HUMANITIES AND FINE ARTS (3 COURSES)

At least one course must be an IAI Fine Arts elective and one course must be an IAI Humanities elective.

	Sem.	Grade
Fine Arts Elective	_____	_____
PHL 111 or Humanities Elective	_____	_____
PHL 121 or Humanities or Fine Arts Elective	_____	_____

#### IAI Fine Arts Electives:

Art: ART 111, 220, 221, 291  
Literature: LIT 275  
Music: MUS 105, 225  
Theater: THE 113

#### IAI Humanities Electives:

Foreign Language: FRE 202, GER 202, SPN 202  
History: HIS 101, 102, 213  
Literature: LIT 210, 230, 235, 264, 280, 281, 284, 295  
Philosophy: PHL 111, 121, 131, 200, 260

### IAI MATHEMATICS (1 COURSE)

	Sem.	Grade
MAT 112 or MAT 113 (3) or MAT 131 (5) or MAT Elective	_____	_____

IAI Mathematics Electives: MAT 116, MAT 117, MAT 119, MAT 120, MAT 125/CPS 202,, MAT 201, MAT 202, MAT 209, MAT 282

### IAI SOCIAL AND BEHAVIORAL SCIENCES (3 COURSES)

At least two different disciplines (course prefixes) must be represented.

	Sem.	Grade
SOC 133 or Social Science Elective	_____	_____
PSY 132 or Social Science Elective	_____	_____
PSC 131 or PSY 200 or Social Science Elective	_____	_____

#### IAI Social and Behavioral Sciences Electives:

Anthropology: ANT 111, 202, 216, 240  
Economics: ECO 201, 202  
Geography: GEO 112  
History: HIS 103, 104, 201, 202  
Political Science: PSC 131, 211, 212, 213, 289  
Psychology: PSY 132, 200, 203, 262  
Sociology: SOC 133, 221, 263, 264

### IAI PHYSICAL/LIFE SCIENCES (2 COURSES)

One course must be at least 4 credit hours and include a lab component.

	Sem.	Grade
BIO 100 (4) or Life Science Elective	_____	_____
PHS 107 (3) or Physical Science Elective	_____	_____

#### IAI Life Science Electives:

Biology: BIO 100, 101, 105, 225  
Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B  
Life Science: SCI 215

#### IAI Physical Science Electives:

Chemistry: CHM 141, 151  
Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B  
Physical Science: PHS 102,103,105,107  
Physics: PHY 121, 155, 205

## MAJOR AND GENERAL ELECTIVE REQUIREMENTS (IAI GECC and major/elective credits must total a minimum of 62 hours, of which 24-25 must be general elective credits.)

Consult with the transfer institution to determine if certain courses require a grade of "C" or higher, or if there is a minimum grade point average for admission to your declared major. Please select courses on this guide in accordance with the Articulation Notes for your transfer institution.

### SELECT COURSES FROM THIS LISTING USING THE ARTICULATION NOTES AS A GUIDE

	Sem.	Grade
ORI 100 (1)	_____	_____
CRJ 103 (3)	_____	_____
CRJ 105 (3)	_____	_____
CRJ 218 (3)	_____	_____
CRJ 223 (3)	_____	_____
Foreign Language (4)	_____	_____
Foreign Language (4)	_____	_____
CRJ 209 (3) or Elective	_____	_____
CRJ 219 (3) or Elective	_____	_____
HIS 103 (3) or HIS 104 (3) or Elective	_____	_____

**ARTICULATION NOTES:** Consult the transfer institution for specific requirements.

**IAI** The IAI Criminal Justice major panel recommends CRJ 103 (CRJ 901) as a core course and CRJ 218 (CRJ 911), CRJ 105 (CRJ 912) and CRJ 223 (CRJ 914). SOC 133 and PSY 132 are recommended IAI Social and Behavioral Science courses.

**SIUC** Take CRJ 103 (CCJ 201), CRJ105 (CCJ 290) and CRJ 209 (CCJ 310). To satisfy College of Liberal Arts foreign language requirement, take SPN 101 and 102 "or" IPP 141 and 142. To satisfy the two course International Coursework requirement, take HIS 103 and 104 (HIST 101A and 101B). If you are seeking additional recommendations for fulfilling the IAI Social Science requirements, take ECO 201 (ECON 240), GEO 112(GEOG 102) or HIS 202 (HIST 301). The CCJ program requires completion of a minor. Any SIUC minor other than CCJ can satisfy this requirement. A minor entails 15 credits or more of required courses. Areas recommended with a few suggested courses include Forensic Science (ANT 240 or ANTH 240A, PHL 111 or PHIL 104, PSY 285 or PSYC 305), Psychology (select PSY 132 as an IAI Social and Behavioral Science course and one from PSY 200 or PSYC 307, PSY 203 or PSYC 303, PSY 262 or PSYC 301 and PSY 270 or PSYC 331), Anthropology (ANT 240 or ANTH 240A, ANT 216 or ANTH 240D), Business and Administration or Accounting (ACC 200 and 201 or ACCT 220, ACC 202 or ACCT 230), Sociology (SOC 133 or SOC 108). SIUC policy on Senior Institution Hours/Credits required as a General Graduation Requirement states at least 42 credits of 300-400 level credits must be earned at SIUC. This allows for the acceptance of credits from JALC beyond the Associate degree requirements and up to 78 credits. These additional credits should, though, be articulated credits matching CCJ degree requirements.

**SIUE** Take CRJ 103 (CJ 111), CRJ 115 (CJ 208), CRJ 209 (CJ 206), CRJ 218 (CJ 202). A grade of C or better in these courses is required before enrolling in a 300-400 level course. Since one can transfer in up to 15 credits of CJ equivalent credit from JALC, select an elective course from CRJ 105 (CJ 275), CRJ 219 (CJ 207) or CRJ 223 (CJ 205). Additional CJ credits (beyond 15) may be used if approved by your SIUE departmental advisor.

For BA degree students, one year or two course sequence in a foreign language is required. Additional recommendations include SOC 133 (SOC 111), ANT 216 (ANTH 111B), MAT 113 (QR 101) or MAT 131 (MATH 150), PSC 131 (POLS 112) and PHL 121 (RA 101). For graduation purposes, all required courses must be passed with a grade of "C" or higher.

**ISU** Take CRJ 103 (CJS 103), CRJ 218 (CJS 200), CRJ 105 (CJS 201), CRJ 115 or 221 (CJS 207), CRJ 209 (CJS 208). ENG 102 (ENG 145), PSY 132 (PSY 110) and SOC 133 (SOC 106)

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For electives, FRE, GER or SPN 101 and 102 (FRE, GER or SPA 111 and 112), PSY 200 (PSY 203)

To satisfy the AMALI degree requirement, take GEO 112 (GEO 135) or PSC 212 (POL 151).

The Criminal Justice program offers both a BA and BS option. The BA option requires a foreign language through the 3<sup>rd</sup> semester or LAN 115 (FRE 201, GER 201 or SPN 201). The BS degree requires a 3 credit SMT course: select from ANT 240 (ANT 102), BIO 226 (BSC 160), BIO 240 (BSC 201), BIO 275 (BSC 223), BUS 121 (MQM 100), CHM 142 or 152 (CHE 141), CHM 201 (CHE 230), MAT 117 (MAT 121), MAT 120 (ECO 138), MAT 125 (MAT 160), MAT 201 (MAT 146), MAT 202 (MAT 147), MAT 221 (MAT175), MAT 282 (ECO 138), PHS 107 (GEO 211), PHY 156 (PHY 109 and PHY 206 (PHY 111)

**UIS** Take an Introduction to Criminal Justice course (CRJ 103) and one other lower division criminal justice course (CRJ 105, 218 or 223).



John A. Logan College

# Associate in Arts Degree in Early Childhood Education

Transfer Curriculum 000AA0086  
Associate in Arts: 64 Hrs. Min.  
Major Code: 1.1 131210  
Effective Date: Fall 2019

## GENERAL EDUCATION (IAI GECC, 37-38 CREDITS)

The Illinois Articulation Initiative (IAI) General Education Core Curriculum (GECC) requires 12 to 13 courses from the following five areas. Courses selected to meet IAI GECC requirements may also meet course requirements for a specific major.

### IAI COMMUNICATIONS (3 COURSES)

	Sem.	Grade
ENG 101 or ENG 113 (C grade or higher)	_____	_____
ENG 102 (C grade or higher)	_____	_____
COM 115 Speech	_____	_____

### IAI HUMANITIES AND FINE ARTS (3 COURSES)

At least one course must be an IAI Fine Arts elective and one course must be an IAI Humanities elective.

	Sem.	Grade
ART 111, MUS 105, or THE 113	_____	_____
Humanities Elective	_____	_____
Humanities or Fine Arts Elective	_____	_____

#### IAI Fine Arts Electives:

Art: ART 111, 220, 221, 291  
Literature: LIT 275  
Music: MUS 105, 225  
Theater: THE 113

#### IAI Humanities Electives:

Foreign Language: FRE 202, GER 202, SPN 202  
History: HIS 101, 102, 213  
Literature: LIT 210, 230, 235, 264, 280, 281, 284, 295  
Philosophy: PHL 111, 121, 131, 200, 260

### IAI MATHEMATICS (1 COURSE)

	Sem.	Grade
MAT 209	_____	_____

### IAI SOCIAL AND BEHAVIORAL SCIENCES (3 COURSES)

At least two different disciplines (course prefixes) must be represented.

	Sem.	Grade
HIS 202 or Social Science Elective	_____	_____
PSC 131 or Social Science Elective	_____	_____
PSY 132, 262 or Social Science Elective	_____	_____

#### IAI Social and Behavioral Sciences Electives:

Anthropology: ANT 111, 202, 216, 240  
Economics: ECO 201, 202  
Geography: GEO 112  
History: HIS 103, 104, 201, 202  
Political Science: PSC 131, 211, 212, 213, 289  
Psychology: PSY 132, 200, 203, 262  
Sociology: SOC 133, 215, 263, 264

### IAI PHYSICAL/LIFE SCIENCES (2 COURSES)

One course must be at least 4 credit hours and include a lab component.

	Sem.	Grade
SCI 210A or Life Science Elective	_____	_____
SCI 210B or Physical Science Elective	_____	_____

#### IAI Life Science Electives:

Biology: BIO 100, 101, 105, 225  
Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B  
Life Science: SCI 215

#### IAI Physical Science Electives:

Chemistry: CHM 141, 151  
Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B  
Physical Science: PHS 102, 103, 105, 107  
Physics: PHY 121, 155, 205

## MAJOR AND GENERAL ELECTIVE REQUIREMENTS (IAI GECC and major/elective credits must total a minimum of 63 hours, of which 24-25 must be general elective credits.)

Consult with the transfer institution to determine if certain courses require a grade of "C" or higher, or if there is a minimum grade point average for admission to your declared major. Please select courses on this guide in accordance with the Articulation Notes for your transfer institution.

	Sem.	Grade
ORI 100 (1)	_____	_____
MAT 108	_____	_____
MAT 208	_____	_____
EDC 203 or Elective	_____	_____
PEDE 202 or Elective	_____	_____
HTH 110 or Elective	_____	_____
Elective or ECE 160	_____	_____
Elective or ECE 260	_____	_____
Elective or ECE 245	_____	_____

**TEACHER EDUCATION PROGRAM:** To be considered for admission into a formal Teacher Education Program, qualifying scores on the TAP, ACT plus writing, or SAT must be submitted. Students must earn a grade of "C" or higher in all courses for an endorsement and required in the major. Students must also meet the minimum grade point average required for consideration into the TEP (typically a minimum of 2.5, but may be higher depending on the institution or program option selected).

Helpful tips for applying to a Teacher Education Program may be found [here](#):

**SIUC TRANSFER INFORMATION:** Students are required to take EDC 202, EDC 203, MAT 108, MAT 208, MAT 209, SCI 210A, SCI 210B, HIS 202, PSC 131, HTH 110, PEDE 202, and PSY 132 or PSY 262. Students are also required to take six credits in Humanities to be selected from HIS 213, LIT 280, LIT 232, HIS 101, and/or HIS 102.

**SIUE TRANSFER INFORMATION:** PHL 121, CIS 207, EDC 200, GEO 112, PSY 262, MUS 105, HTH 110, HIS 201, HIS 202, MAT 208, MAT 209, SCI 210A, and SCI 210B are required. Select one course from LIT 211, 212, 231, 232, 235, 264, 280, 284, or 295 to satisfy the literature requirement.

**EIU TRANSFER INFORMATION:** EDC 200, EDC 202 or PSY 262, BIO 100 or BIO 101, CHM 151 or PHY 155, and GEO 112 are required. Select one course from LIT 210, 230, 235, 264, 280, 284, or 295 to satisfy the literature requirement.

**ISU TRANSFER INFORMATION:** EDC 208 or PSY 265 is required. Students should select one course from ANT 111, ANT 216, GEO 112, HIS 103, HIS 104, HUM 120, PHL 200, PHL 260, PSC 120, or PSC 212 to satisfy the Global Studies requirement for all majors.



John A. Logan College

# Associate in Arts Degree in Economics

Transfer Curriculum 000AA0086  
Associate in Arts: 64 Hrs. Min.  
Major Code: 1.1 450601  
Effective Date: Fall 2019

## GENERAL EDUCATION (IAI GECC, 37-38 CREDITS)

The Illinois Articulation Initiative (IAI) General Education Core Curriculum (GECC) requires 12 to 13 courses from the following five areas. Courses selected to meet IAI GECC requirements may also meet course requirements for a specific major.

### IAI COMMUNICATIONS (3 COURSES)

	Sem.	Grade
ENG 101 or ENG 113 (C grade or higher)	_____	_____
ENG 102 (C grade or higher)	_____	_____
COM 115 Speech	_____	_____

### IAI HUMANITIES AND FINE ARTS (3 COURSES)

At least one course must be an IAI Fine Arts elective and one course must be an IAI Humanities elective.

	Sem.	Grade
Fine Arts Elective (3)	_____	_____
Humanities Elective (3)	_____	_____
Humanities or Fine Arts Elective (3)	_____	_____

#### IAI Fine Arts Electives:

Art: ART 111, 220, 221, 291  
Literature: LIT 275  
Music: MUS 105, 225  
Theater: THE 113

#### IAI Humanities Electives:

Foreign Language: FRE 202, GER 202, SPN 202  
History: HIS 101, 102, 213  
Literature: LIT 210, 230, 235, 264, 280, 281, 284, 295  
Philosophy: PHL 111, 121, 131, 200, 260

### IAI MATHEMATICS (1 COURSE)

	Sem.	Grade
Math Elective (3-5)	_____	_____

IAI Mathematics Electives:  
MAT 112, MAT 113, MAT 116, MAT 117, MAT 119, MAT 120, MAT 125/CPS 202, MAT 131, MAT 201, MAT 202, MAT 282

### IAI SOCIAL AND BEHAVIORAL SCIENCES (3 COURSES)

At least two different disciplines (course prefixes) must be represented.

	Sem.	Grade
ECO 201 (3)	_____	_____
ECO 202 (3)	_____	_____
Social Science Elective (3)	_____	_____

#### IAI Social and Behavioral Sciences Electives:

Anthropology: ANT 111, 202, 216, 240  
Geography: GEO 112  
History: HIS 103, 104, 201, 202  
Political Science: PSC 131, 211, 212, 213, 289  
Psychology: PSY 132, 200, 203, 262  
Sociology: SOC 133, 221, 263, 264

### IAI PHYSICAL/LIFE SCIENCES (2 COURSES)

One course must be at least 4 credit hours and include a lab component.

	Sem.	Grade
Life Science Elective (3-4)	_____	_____
Physical Science Elective (3-5)	_____	_____

#### IAI Life Science Electives:

Biology: BIO 100, 101, 105, 225  
Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B  
Life Science: SCI 215

#### IAI Physical Science Electives:

Chemistry: CHM 141, 151  
Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B  
Physical Science: PHS 102, 103, 105, 107  
Physics: PHY 121, 155, 205

## MAJOR AND GENERAL ELECTIVE REQUIREMENTS (IAI GECC and major/elective credits must total a minimum of 64 hours, of which 24-25 must be general elective credits.)

Consult with the transfer institution to determine if certain courses require a grade of "C" or higher, or if there is a minimum grade point average for admission to your declared major. Please select courses on this guide in accordance with the Articulation Notes for your transfer institution.

	Sem.	Grade
ORI 100 (1)	_____	_____
Elective (3)	_____	_____
Elective (3)	_____	_____
Elective (3)	_____	_____
Elective (3)	_____	_____
Elective (3)	_____	_____
Elective (3)	_____	_____
Elective (3)	_____	_____
Elective (3)	_____	_____
Elective (3)	_____	_____

**ARTICULATION NOTES:** Consult the transfer institution for specific requirements.

**SIUC TRANSFER INFORMATION:** Students interested in Business Economics should follow the Business Degree Guide. This guide is for Economics within the College of Liberal Arts. Students should select two courses from ANT 111, ANT 216, ART 220, ART 221, ART 223, ECO 150I, GEO 112, GEO 215, HIS 101, HIS 102, HIS 103, HIS 104, HIS 112, HIS 213, PHL 200, PSC 212, PSC 289, and/or SOC 263 to satisfy the International Coursework requirements. Two semesters of the same foreign language are also required. IPP 141 and 142 could also be used to satisfy the language requirement.

**SIUE TRANSFER INFORMATION:** Students are required to take ECO 201, 202, and MAT 108 with a grade of "C" or higher. All Economics majors must declare a minor. Suggested minors include math, business, or other approved minor. Students who plan to earn a B.S. in Economics must complete eight courses in the sciences (life, physical, or social). Two of the courses must be designated as laboratory courses. Students who plan to earn a B.A. in Economics must complete eight courses in fine arts or humanities, including a two semester sequence in the same foreign language.

**EIU TRANSFER INFORMATION:** ECO 201 and 202 must be completed with a "C" or higher. MAT 116 and MAT 117 are required. Students must complete two years of the same foreign language at the high school level with a "C" or higher, or two semesters of the same language at the college level.

**ISU TRANSFER INFORMATION:** ECO 201, 202, and MAT 117 are required. ACC 200, 201, and 202 are also required for the Managerial Economics Sequence. Two semesters of the same language are required (three years of the same language in high school with a grade of "C" or higher will satisfy this requirement). IPP 141 and 142 may be used to satisfy the language requirement. Students should select one course from ANT 111, ANT 216, GEO 112, HIS 103, HIS 104, HUM 120, PHL 200, PHL 260, PSC 120, or PSC 212 to satisfy the Global Studies requirement for all majors.



John A. Logan College

# Associate in Arts Degree in Elementary Education

Transfer Curriculum 000AA0086  
Associate in Arts: 64 Hrs. Min.  
Major Code: 1.1 131202  
Effective Date: Fall 2019

## GENERAL EDUCATION (IAI GECC, 37-38 CREDITS)

The Illinois Articulation Initiative (IAI) General Education Core Curriculum (GECC) requires 12 to 13 courses from the following five areas. Courses selected to meet IAI GECC requirements may also meet course requirements for a specific major.

### IAI COMMUNICATIONS (3 COURSES)

	Sem.	Grade
ENG 101 or ENG 113 (C grade or higher)	_____	_____
ENG 102 (C grade or higher)	_____	_____
COM 115 Speech	_____	_____

### IAI HUMANITIES AND FINE ARTS (3 COURSES)

At least one course must be an IAI Fine Arts elective and one course must be an IAI Humanities elective.

	Sem.	Grade
ART 101, 102, 111, MUS 105, THE 113 or Fine Arts Elective	_____	_____
LIT 280 or HIS 213 or Humanities Elective	_____	_____
Humanities/Fine Arts Elective	_____	_____

#### IAI Fine Arts Electives:

Art: ART 111, 220, 221, 291  
Literature: LIT 275  
Music: MUS 105, 225  
Theater: THE 113

#### IAI Humanities Electives:

Foreign Language: FRE 202, GER 202, SPN 202  
History: HIS 101, 102, 213  
Literature: LIT 210, 230, 235, 264, 280, 281, 284, 295  
Philosophy: PHL 111, 121, 131, 200, 260

### IAI MATHEMATICS (1 COURSE)

	Sem.	Grade
MAT 119 or MAT 120 or 282 (3)	_____	_____

### IAI SOCIAL AND BEHAVIORAL SCIENCES (3 COURSES)

At least two different disciplines (course prefixes) must be represented.

	Sem.	Grade
HIS 202 or HIS 110 or Social Science Elective	_____	_____
PSC 131 or Social Science Elective	_____	_____
PSY 132 or Social Science Elective	_____	_____

#### IAI Social and Behavioral Sciences Electives:

Anthropology: ANT 111, 202, 216, 240  
Economics: ECO 201, 202  
Geography: GEO 112  
History: HIS 103, 104, 201, 202  
Political Science: PSC 131, 211, 212, 213, 289  
Psychology: PSY 132, 200, 203, 262  
Sociology: SOC 133, 221, 263, 264

### IAI PHYSICAL/LIFE SCIENCES (2 COURSES)

One course must be at least 4 credit hours and include a lab component.

	Sem.	Grade
SCI 210A or Physical Science Elective	_____	_____
SCI 210B or Life Science Elective	_____	_____

#### IAI Life Science Electives:

Biology: BIO 100, 101, 105, 225  
Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B  
Life Science: SCI 215

#### IAI Physical Science Electives:

Chemistry: CHM 141, 151  
Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B  
Physical Science: PHS 102, 103, 105, 107  
Physics: PHY 121, 155, 205

## MAJOR AND GENERAL ELECTIVE REQUIREMENTS (IAI GECC and major/elective credits must total a minimum of 64 hours, of which 24-25 must be general elective credits.)

Consult with the transfer institution to determine if certain courses require a grade of "C" or higher, or if there is a minimum grade point average for admission to your declared major. Please select courses on this guide in accordance with the Articulation Notes for your transfer institution.

	Sem.	Grade
ORI 100 (1)	_____	_____
HTH 110 (2) or Elective	_____	_____
MAT 108 (4)	_____	_____
MAT 208 (3)	_____	_____
MAT 209 (3)	_____	_____
EDC 202 or Elective (3)	_____	_____
EDC 203 or Elective (3)	_____	_____
PEDE 202 or Elective (3)	_____	_____
Electives (6)	_____	_____

**TEACHER EDUCATION PROGRAM:** To be considered for admission into a formal Teacher Education Program, qualifying scores on the TAP, ACT plus writing, or SAT must be submitted. Students must earn a grade of "C" or higher in all courses for an endorsement and required in the major. Students must also meet the minimum grade point average required for consideration into the TEP (typically a minimum of 2.5, but may be higher depending on the institution or program option selected). SIUC requires a **minimum 2.75** grade point average for consideration. Helpful tips for applying to a Teacher Education Program may be found [here](#):

**SIUC TRANSFER INFORMATION:** Take ENG 101 (ENGL 101), ENG 102 (ENGL 102), SPE 115 (CMST 101). Select one from ART 101 (AD 100A), ART 102 (AD100B), ART 111 (AD 101), MUS 105 (MUS 103), or THE 113 (THEA 101). Select two from LIT 280 (ENGL121), HIS 213 (EA 102), HIS 103 (HIST 101A) or HIS 104 (HIST 101B). Take PSC 131 (POLS 114), HIS 202 or 110 (HIST 110). Take SCI 210A (SCI 210A) and SCI 210B (SCI 210B). TAKE HTH 110 (HED 101), Take MAT 108 (MATH 108), MAT 208 (MATH 120), MAT 209 (MATH 220), MAT 120 or 282 (MATH 282), EDC 202 (EDUC 214), EDC 203 (EDUC 211) and PEDE 202 (KIN 202). SIUC will accept up to 78 articulated credits as applicable toward degree requirements.

**SIUE TRANSFER INFORMATION:** Take ENG 101 (ENG 101), MAT 208 (MATH 112A), MUS 105 or 225 (MUS 111), PHL 121 (RA 101), EDC 200 (CIED 100), SPE 115 (ACS 101/SPC 101), MAT 113 or 131 (QR 101), ENG 102 (ENG 102), HIS 201 (HIST 200), MAT 108 (MATH 120), PSY 132 (PSYC 111), MAT 209 (MATH 112B), EDC 208 (SPE 400), HIS 202 (HIST 201), SELECT ONE IAI HUMANITIES LIT COURSE (ENG LITERATURE BHUM), SCI 241A (SCI 210A), PHS 103 (ESCI 111), GEO 112 (GEOG 111), PSY 262 (PSYC 201), ECO 201 or 202 (ECON 111 or 112), SCI 210B (SCI 241B).

**EIU TRANSFER INFORMATION:** Take EDC 200 and 202 (ELE 2050), CPS 111 (EDU 2022), EDC 203 (EDF 2555G), ENG 101 (ENG 1001G), ENG 102 (ENG 1002G), SPE 115 (CMN 1310G), PSC 131 (PLS 1153G), GEO 112 (GEO 1200G), SELECT ONE from ANT 111, 216, PSC 213, PSY 132 or SOC 264 (ANT 2200G, PLS 2253G, PSY 1879G or SOC 2750G), SELECT ONE from ART 111, MUS 105 or THE 113 (ART 2330G, MUS 3553G or THA 2140G), SELECT ONE from IAI HUMANITIES LIT COURSES (ANY "G" HUMANITIES COURSE), HIS 201 or 202 (HIS 2010G or HIS 2020G), BIO 100 or 101 (BIO 1001G), PHY 155 (PHY 1151G and 1152G), CHM 151 (CHM 1310G and 1315G), PHS 103 (GEO 1300G), MAT 208 (MAT 1420), MAT 209 (MAT 2420G), MAT 120 or 282 (MAT 2250G). RECOMMENDATION includes ECO 201 or 201 (ECN 2801G or 2802G)

**ISU TRANSFER INFORMATION:** Take BIO 100 OR 101 (BSC 101), SPE 115 (COM 110), ENG 101 (ENG 101), GEO 112 (GEO 135), PHS 107 (GEO 211), HIS 201 (HIS 135) or HIS 202 (HIS 136), PSC 131 (POL 106), EDC 202 or PSY 262 (TCH 210), ECO 201 and 202 (ECO105), LIT 264 (ENG 170), MAT 108 (MAT 119), MAT 209 (MAT 152), EDC 208 or PSY 265 (SED 101)





John A. Logan College

# Associate in Arts Degree in English

Transfer Curriculum 000AA0086

Associate in Arts: 64 Hrs. Min.

Major Code: 1.1 230101

Effective Date: Fall 2019

## GENERAL EDUCATION (IAI GECC, 37-38 CREDITS)

The Illinois Articulation Initiative (IAI) General Education Core Curriculum (GECC) requires 12 to 13 courses from the following five areas. Courses selected to meet IAI GECC requirements may also meet course requirements for a specific major.

### IAI COMMUNICATIONS (3 COURSES)

	Sem.	Grade
ENG 101 (C grade or higher)	_____	_____
ENG 102 (C grade or higher)	_____	_____
COM 115 Speech	_____	_____

### IAI HUMANITIES AND FINE ARTS (3 COURSES)

At least one course must be an IAI Fine Arts elective and one course must be an IAI Humanities elective.

	Sem.	Grade
Fine Arts Elective	_____	_____
LIT 280 or Humanities Elective	_____	_____
LIT 281, Humanities or Fine Arts Elective	_____	_____

#### IAI Fine Arts Electives:

Art: ART 111, 220, 221, 291

Literature: LIT 275

Music: MUS 105, 225

Theater: THE 113

#### IAI Humanities Electives:

Foreign Language: FRE 202, GER 202, SPN 202

History: HIS 101, 102, 213

Literature: LIT 210, 230, 235, 264, 280, 281, 284, 295

Philosophy: PHL 111, 121, 131, 200, 260

### IAI MATHEMATICS (1 COURSE)

	Sem.	Grade
MAT Elective	_____	_____

#### IAI Mathematics Electives:

MAT 112, MAT 113, MAT 116, MAT 117, MAT 119, MAT 120, MAT 125/CPS 202, MAT 131, MAT 201, MAT 202, MAT 282

### IAI SOCIAL AND BEHAVIORAL SCIENCES (3 COURSES)

At least two different disciplines (course prefixes) must be represented.

	Sem.	Grade
Social Science Elective	_____	_____
Social Science Elective	_____	_____
Social Science Elective	_____	_____

#### IAI Social and Behavioral Sciences Electives:

Anthropology: ANT 111, 202, 216, 240

Economics: ECO 201, 202

Geography: GEO 112

History: HIS 103, 104, 201, 202

Political Science: PSC 131, 211, 212, 213, 289

Psychology: PSY 132, 200, 203, 262

Sociology: SOC 133, 221, 263, 264

### IAI PHYSICAL/LIFE SCIENCES (2 COURSES)

One course must be at least 4 credit hours and include a lab component.

	Sem.	Grade
Life Science Elective	_____	_____
Physical Science Elective	_____	_____

#### IAI Life Science Electives:

Biology: BIO 100, 101, 105, 225

Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B

Life Science: SCI 215

#### IAI Physical Science Electives:

Chemistry: CHM 141, 151

Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B

Physical Science: PHS 102, 103, 105, 107

Physics: PHY 121, 155, 205

**MAJOR AND GENERAL ELECTIVE REQUIREMENTS (IAI GECC and major/elective credits must total a minimum of 64 hour, of which 24-25 must be general elective credits.)**

Consult with the transfer institution to determine if certain courses require a grade of "C" or higher, or if there is a minimum grade point average for admission to your declared major. Please select courses on this guide in accordance with the Articulation Notes for your transfer institution.

	Sem.	Grade
ORI 100 (1)	_____	_____
LIT 210 or Elective (3)	_____	_____
LIT 230 or Elective (3)	_____	_____
Foreign Language I or Elective (3-4)	_____	_____
Foreign Language II or Elective (3-4)	_____	_____
Elective (3)	_____	_____
Elective (3)	_____	_____
Elective (3)	_____	_____
Elective (3)	_____	_____
Elective (3)	_____	_____

**ARTICULATION NOTES:** Consult the transfer institution for specific requirements.

**DEGREE INFORMATION:** This program guide follows the IAI English Major panel. Competency in a single foreign language through the second, third, or fourth semester is recommended.

**SIUC TRANSFER INFORMATION:** LIT 281 is recommended with a grade of "C" or higher. Students should select two courses from ANT 111, ANT 216, ART 220, ART 221, ART 223, ECO 150I, GEO 112, GEO 215, HIS 101, HIS 102, HIS 103, HIS 104, HIS 112, HIS 213, PHL 200, PSC 212, PSC 289, and/or SOC 263 to satisfy the International Coursework requirement in the College of Liberal Arts. Two semesters of the same foreign language are also required. IPP 141 and 142 could also be used to satisfy the language requirement. LIT 281 is recommended. Students considering graduate study in English should take four semesters of the same foreign language.

**SIUE TRANSFER INFORMATION:** Two semesters of the same foreign language are required. PHL 121 is recommended

**EIU TRANSFER INFORMATION:** A culturally diverse course is required. PHL 200 (Humanities) or GEO 112 (Social Science) will fulfill this requirement. Two semesters of the same foreign language are required (two years of the same foreign language in high school with a grade of "C" or higher will satisfy this requirement).

**ISU TRANSFER INFORMATION:** Transfer students must have at least a cumulative 2.5 GPA with the required prerequisites (ENG 101 or SPE 115 and LIT 264 with a grade of "B" or higher) or a 3.3 GPA with no prerequisites. Two semesters of the same language are required (three years of the same language in high school with a grade of "C" or higher will satisfy this requirement). IPP 141 and 142 may be used to satisfy the language requirement. Students should select one course from ANT 111, ANT 216, GEO 112, HIS 103, HIS 104, HUM 120, PHL 200, PHL 260, PSC 120, or PSC 212 to satisfy the Global Studies requirement for all majors.





John A. Logan College

# Associate in Arts Degree in English Education

Transfer Curriculum 000AA0086  
Associate in Arts: 63 Hrs. Min.  
Major Code: 1.1 131305  
Effective Date: Fall 2019

## GENERAL EDUCATION (IAI GECC, 37-38 CREDITS)

The Illinois Articulation Initiative (IAI) General Education Core Curriculum (GECC) requires 12 to 13 courses from the following five areas. Courses selected to meet IAI GECC requirements may also meet course requirements for a specific major.

### IAI COMMUNICATIONS (3 COURSES)

	Sem.	Grade
ENG 101 or ENG 113 (C grade or higher)	_____	_____
ENG 102 (C grade or higher)	_____	_____
COM 115 Speech	_____	_____

### IAI HUMANITIES AND FINE ARTS (3 COURSES)

At least one course must be an IAI Fine Arts elective and one course must be an IAI Humanities elective.

	Sem.	Grade
Fine Arts Elective	_____	_____
LIT 280 or Humanities Elective	_____	_____
LIT 281, Humanities or Fine Arts Elective	_____	_____

#### IAI Fine Arts Electives:

Art: ART 111, 220, 221, 291  
Literature: LIT 275  
Music: MUS 105, 225  
Theater: THE 113

#### IAI Humanities Electives:

Foreign Language: FRE 202, GER 202, SPN 202  
History: HIS 101, 102, 213  
Literature: LIT 210, 230, 264, 280, 281, 284, 295  
Philosophy: PHL 111, 121, 131, 200, 260

### IAI MATHEMATICS (1 COURSE)

	Sem.	Grade
MAT Elective	_____	_____

#### IAI Mathematics Electives:

MAT 112, MAT 113, MAT 116, MAT 117, MAT 119, MAT 120, MAT 125/CPS 202, MAT 131, MAT 201, MAT 202, MAT 282

### IAI SOCIAL AND BEHAVIORAL SCIENCES (3 COURSES)

At least two different disciplines (course prefixes) must be represented.

	Sem.	Grade
PSY 132 or Social Science Elective	_____	_____
Social Science Elective	_____	_____
Social Science Elective	_____	_____

#### IAI Social and Behavioral Sciences Electives:

Anthropology: ANT 111, 202, 216, 240  
Economics: ECO 201, 202  
Geography: GEO 112  
History: HIS 103, 104, 201, 202  
Political Science: PSC 131, 211, 212, 213, 289  
Psychology: PSY 132, 200, 203, 262  
Sociology: SOC 133, 221, 263, 264

### IAI PHYSICAL/LIFE SCIENCES (2 COURSES)

One course must be at least 4 credit hours and include a lab component.

	Sem.	Grade
Life Science Elective	_____	_____
Physical Science Elective	_____	_____

#### IAI Life Science Electives:

Biology: BIO 100, 101, 105, 225  
Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B  
Life Science: SCI 215

#### IAI Physical Science Electives:

Chemistry: CHM 141, 151  
Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B  
Physical Science: PHS 102, 103, 105, 107  
Physics: PHY 121, 155, 205

## MAJOR AND GENERAL ELECTIVE REQUIREMENTS (IAI GECC and major/elective credits must total a minimum of 62 hour, of which 24-25 must be general elective credits.)

Consult with the transfer institution to determine if certain courses require a grade of "C" or higher, or if there is a minimum grade point average for admission to your declared major. Please select courses on this guide in accordance with the Articulation Notes for your transfer institution.

	Sem.	Grade
ORI 100 (1)	_____	_____
EDC 202 or Elective	_____	_____
EDC 203 or Elective	_____	_____
LIT 210 or Elective	_____	_____
LIT 230 or Elective	_____	_____
Foreign Language I or Elective	_____	_____
Foreign Language II or Elective	_____	_____
Elective	_____	_____
Elective	_____	_____
Elective	_____	_____

**ARTICULATION NOTES:** Consult the transfer institution for specific requirements.

**TEACHER EDUCATION PROGRAM:** To be considered for admission into a formal Teacher Education Program, qualifying scores on the TAP, ACT plus writing, or SAT must be submitted. Students must earn a grade of "C" or higher in all courses for an endorsement and required in the major. Students must also meet the minimum grade point average required for consideration into the TEP (typically a minimum of 2.5, but may be higher depending on the institution or program option selected).

Helpful tips for applying to a Teacher Education Program may be found [here](#):

**SIUC TRANSFER INFORMATION:** LIT 280, PSY 132, EDC 202, and 203 are required. Students should select two courses from ANT 111, ANT 216, ART 220, ART 221, ART 223, ECO 150I, GEO 112, GEO 215, HIS 101, HIS 102, HIS 103, HIS 104, HIS 112, HIS 213, PHL 200, PSC 212, PSC 289, and/or SOC 263 to satisfy the International Coursework requirement in the College of Liberal Arts. Two semesters of the same foreign language are also required. IPP 141 and 142 could also be used to satisfy the language requirement. LIT 281 is recommended.

**SIUE TRANSFER INFORMATION:** EDC 200, EDC 203, EDC 208, PHL 121 and SPE 122 or SPE 200 are required. Two semesters of the same foreign language are also required.

**EIU TRANSFER INFORMATION:** GEO 112 or PHL 200 is required and satisfies the culturally diverse course requirement. Two semesters of the same foreign language are required (two years of the same foreign language in high school with a grade of "C" or higher will satisfy this requirement).

**ISU TRANSFER INFORMATION:** LIT 264 is required. Students are required to complete three semesters of a single foreign language. Students should select one course from ANT 111, ANT 216, GEO 112, HIS 103, HIS 104, HUM 120, PHL 200, PHL 260, PSC 120, or PSC 212 to satisfy the Global Studies requirement for all majors



John A. Logan College

# Associate in Arts Degree in Environmental Resources and Geography

Transfer Curriculum 000AA0086  
Associate in Arts: 64 Hrs. Min.  
Major Code: 1.1 150507B  
Effective Date: Fall 2019

## GENERAL EDUCATION (IAI GECC, 37-38 CREDITS)

The Illinois Articulation Initiative (IAI) General Education Core Curriculum (GECC) requires 12 to 13 courses from the following five areas. Courses selected to meet IAI GECC requirements may also meet course requirements for a specific major.

### AI COMMUNICATIONS (3 COURSES)

	Sem.	Grade
ENG 101 or ENG 113 (C grade or higher)	_____	_____
ENG 102 (C grade or higher)	_____	_____
COM 115 Speech	_____	_____

### IAI HUMANITIES AND FINE ARTS (3 COURSES)

At least one course must be an IAI Fine Arts elective and one course must be an IAI Humanities elective.

	Sem.	Grade
Fine Arts Elective	_____	_____
Humanities Elective	_____	_____
Humanities or Fine Arts Elective	_____	_____

#### IAI Fine Arts Electives:

Art: ART 111, 220, 221, 291  
Literature: LIT 275  
Music: MUS 105, 225  
Theater: THE 113

#### IAI Humanities Electives:

Foreign Language: FRE 202, GER 202, SPN 202  
History: HIS 101, 102, 213  
Literature: LIT 210, 230, 235, 264, 280, 281, 284, 295  
Philosophy: PHL 111, 121, 131, 200, 260

### IAI MATHEMATICS (1 COURSE)

	Sem.	Grade
MAT Elective	_____	_____

#### IAI Mathematics Electives:

MAT 112, MAT 113, MAT 116, MAT 117, MAT 119, MAT 120, MAT 125/CPS 202, MAT 131, MAT 201, MAT 202, MAT 282

### IAI SOCIAL AND BEHAVIORAL SCIENCES (3 COURSES)

At least two different disciplines (course prefixes) must be represented.

	Sem.	Grade
GEO 112	_____	_____
Social Science Elective	_____	_____
Social Science Elective	_____	_____

#### IAI Social and Behavioral Sciences Electives:

Anthropology: ANT 111, 202, 216, 240  
Economics: ECO 201, 202  
History: HIS 103, 104, 201, 202  
Political Science: PSC 131, 211, 212, 213, 289  
Psychology: PSY 132, 200, 203, 262  
Sociology: SOC 133, 221, 263, 264

### IAI PHYSICAL/LIFE SCIENCES (2 COURSES)

One course must be at least 4 credit hours and include a lab component.

	Sem.	Grade
Life Science Elective	_____	_____
PHS 107 or Physical Science Elective	_____	_____

#### IAI Life Science Electives:

Biology: BIO 100, 101, 105, 225  
Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B  
Life Science: SCI 215

#### IAI Physical Science Electives:

Chemistry: CHM 141, 151  
Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B  
Physical Science: PHS 102, 103, 105, 107  
Physics: PHY 121, 155, 205

## MAJOR AND GENERAL ELECTIVE REQUIREMENTS (IAI GECC and

major/elective credits must total a minimum of 64 hour, of which 24-25 must be general elective credits.) IAI GECC and major/elective credits must total a minimum of 64 hours for the degree.) Select courses on this guide in accordance with the Articulation Notes. Students planning to transfer to other four year institutions should follow the recommendations outlined in that colleges course catalog. Course equivalencies may be found on that college website or on the Transferology website at [www.itransfer.org](http://www.itransfer.org)

	Sem.	Grade
ORI 100 (1)	_____	_____
SCI 215 or Elective	_____	_____
Foreign Language I or Elective	_____	_____
Foreign Language II or Elective	_____	_____
Elective	_____	_____
Elective	_____	_____
Elective	_____	_____
Elective	_____	_____
Elective	_____	_____
Elective	_____	_____

**ARTICULATION NOTES:** Consult with the transfer institution to determine if certain courses require a grade of "C" or higher, or if there is a minimum grade point average for admission to your declared major. Please select courses on this guide in accordance with the Articulation Notes for your transfer institution.

**SIUC TRANSFER INFORMATION:** GEO 112, PHS 107 are required. GEO 215 is required for the Sustainability Specialization. Students should select two courses from ANT 111, ANT 216, ART 220, ART 221, ART 223, ECO 150I, GEO 112, GEO 215, HIS 101, HIS 102, HIS 103, HIS 104, HIS 112, HIS 213, PHL 200, PSC 212, PSC 289, and/or SOC 263 to satisfy the International Coursework requirement in the College of Liberal Arts. Two semesters of the same foreign language are also required. In addition to other language courses, IPP 141 and 142 may be used to satisfy this requirement.

**SIUE TRANSFER INFORMATION:** GEO 112 is required. Two semesters of the same foreign language are also required.

**EIU TRANSFER INFORMATION:** GEO 112 and PHS 103 are required. GEO 215, PHS 101, 111, and 107 may count depending on the specialization.

**ISU TRANSFER INFORMATION:** GEO 112 is required. Two semesters of the same language are also required (three years of the same language in high school with a grade of "C" or higher will satisfy this requirement). Students should select one course from ANT 111, ANT 216, GEO 112, HIS 103, HIS 104, HUM 120, PHL 200, PHL 260, PSC 120, or PSC 212 to satisfy the Global Studies requirement for all majors.



John A. Logan College

# Associate in Arts Degree in History Education

Transfer Curriculum 000AA0086  
Associate in Arts: 63 Hrs. Min  
Major Code: 1.1 131328A  
Effective Date: Fall 2019

## GENERAL EDUCATION (IAI GECC, 37-38 CREDITS)

The Illinois Articulation Initiative (IAI) General Education Core Curriculum (GECC) requires 12 to 13 courses from the following five areas. Courses selected to meet IAI GECC requirements may also meet course requirements for a specific major.

### IAI COMMUNICATIONS (3 COURSES)

	Sem.	Grade
ENG 101 or ENG 113 (C grade or higher)	_____	_____
ENG 102 (C grade or higher)	_____	_____
COM 115 Speech	_____	_____

### IAI HUMANITIES AND FINE ARTS (3 COURSES)

At least one course must be an IAI Fine Arts elective and one course must be an IAI Humanities elective.

	Sem.	Grade
Fine Arts Elective	_____	_____
Humanities Elective	_____	_____
Humanities or Fine Arts Elective	_____	_____

#### IAI Fine Arts Electives:

Art: ART 111, 220, 221, 291  
Literature: LIT 275  
Music: MUS 105, 225  
Theater: THE 113

#### IAI Humanities Electives:

Foreign Language: FRE 202, GER 202, SPN 202  
History: HIS 101, 102, 213  
Literature: LIT 210, 230, 235, 264, 280, 281, 284, 295  
Philosophy: PHL 111, 121, 131, 200, 260

### IAI MATHEMATICS (1 COURSE)

	Sem.	Grade
MAT Elective	_____	_____

#### IAI Mathematics Electives:

MAT 112, MAT 113, MAT 116, MAT 117, MAT 119, MAT 120, MAT 125/CPS 202, MAT 131, MAT 201, MAT 202, MAT 282

### IAI SOCIAL AND BEHAVIORAL SCIENCES (3 COURSES)

At least two different disciplines (course prefixes) must be represented.

	Sem.	Grade
PSY 132 or Social Science Elective	_____	_____
PSC 131 or Social Science Elective	_____	_____
SOC 133 or Social Science Elective	_____	_____

#### IAI Social and Behavioral Sciences Electives:

Anthropology: ANT 111, 202, 216, 240  
Economics: ECO 201, 202  
Geography: GEO 112  
History: HIS 103, 104, 201, 202  
Political Science: PSC 131, 211, 212, 213, 289  
Psychology: PSY 132, 200, 203, 262  
Sociology: SOC 133, 221, 263, 264

### IAI PHYSICAL/LIFE SCIENCES (2 COURSES)

One course must be at least 4 credit hours and one must include a lab component.

	Sem.	Grade
Life Science Elective	_____	_____
Physical Science Elective	_____	_____

#### IAI Life Science Electives:

Biology: BIO 100, 101, 105, 225  
Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B  
Life Science: SCI 215

#### IAI Physical Science Electives:

Chemistry: CHM 141, 151  
Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B  
Physical Science: PHS 102, 103, 105, 107  
Physics: PHY 121, 155, 205

## MAJOR AND GENERAL ELECTIVE REQUIREMENTS (IAI GECC and major/elective credits must total a minimum of 62 hour, of which 24-25 must be general elective credits.)

IAI GECC and major/elective credits must total a minimum of 64 hours for the degree.) Select courses on this guide in accordance with the Articulation Notes. Students planning to transfer to other four year institutions should follow the recommendations outlined in that colleges course catalog. Course equivalencies may be found on that college website or on the Transferology website at [www.itransfer.org](http://www.itransfer.org)

	Sem.	Grade
ORI 100 (1)	_____	_____
HIS 101(3)and HIS 102 (3) <b>or</b>	_____	_____
HIS 103 (3) and HIS 104 (3)	_____	_____
HIS 201 (3)	_____	_____
HIS 202 (3)	_____	_____
EDC 202 or Elective (3)	_____	_____
EDC 203 or Elective (3)	_____	_____
Single Foreign Language (8) or Electives	_____	_____

**ARTICULATION NOTES:** Consult with the transfer institution to determine if certain courses require a grade of "C" or higher, or if there is a minimum grade point average for admission to your declared major. Please select courses on this guide in accordance with the Articulation Notes for your transfer institution. Consult the transfer institution for specific requirements.

### IAI HISTORY MAJOR PANEL RECOMMENDATIONS

\*Complete a History core by following either Option 1 or Option 2

--Option 1: Take HIS 201 (S2 900), HIS 202 (S2 901) and HIS 101 (H2 901) and HIS 102 (H2 902)

Or

--Option 2: Take HIS 201 (S2 900) and HIS 202 (S2 901) and HIS 103 (S2 912N) and HIS 104 (S2 913N)

\*IAI NOTES: a) Since some schools divide the Historical periods differently, you should complete course sequences at the same school. b) History Majors should take non-history courses to fulfill the IAI Humanities and Fine Arts and the IAI Social and Behavioral Sciences requirements. c) Schools require a competency in a single foreign language through the second, third or fourth level.

**TEACHER EDUCATION PROGRAM:** To be considered for admission into a formal Teacher Education Program, qualifying scores on the TAP, ACT plus writing, or SAT must be submitted. Students must earn a grade of "C" or higher in all courses for an endorsement and required in the major. Students must also meet the minimum grade point average required for consideration into the TEP (typically a minimum of 2.5, but may be higher depending on the institution or program option selected).

Helpful tips for applying to a Teacher Education Program may be found [here](#):

### SIUC TRANSFER INFORMATION: SIUC Transfer Information

SIUC policy allows for the acceptance and applicability of up to 78 articulated credits toward degree requirements.

Take HIS 103 (HIST 101A) and HIS 104 (HIST 101B). Take HIS 201 (HIST 300) and HIS 202 (HIST 301). Take PSC 131 (POLS 114), PSY 132 (PSYC 102), PHS 107 (GEOG 104).

Take HIS 213 (HIST 380A) as History Elective credit. Take EDC 203 (EDUC 211) and EDC 202 (EDUC 214)

Additional requirements for the Social Science Teaching License include ANT 111 or 216 (ANTH 104), ECO 201 or 202 (ECON 113), PSC 289 (POLS 270) or PSC 213 (POLS 270) and SOC 133 (SOC 108). If student's program permits, recommended electives include ANT 202 (ANTH 202) ECO 202 (ECON 240), ECO 201 (ECON 241), PSC 211 (POLS 213), PSY 203 (PSYC 303).

### SIUE TRANSFER INFORMATION: Compete the Associate in Arts degree

Take HIS 103 (HIST 112A), HIS 104 (HIST 112B), HIS 201 (HIST 200) and HIS 202 (HIST 201). Take PHL 121 (RA 101) and MAT 113 (QR101) or MAT 131 (MATH

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150). Foreign language is recommended for those interested in pursuing graduate study.

Teacher Licensure in Historical Studies requires completion of a social sciences minor including ANT 216 (ANTH 111B, SOC 133 (SOC 111), ECO 201 (ECON 111), ECO 202 (ECON 112), PSC 131(POLS 112) and PSC 212 (POLS 370).

**EIU TRANSFER INFORMATION:** Offers a BA degree in History with a Teacher Licensure Option

Take HIS 101 (HIS 2560), HIS 102 (HIS 3555), HIS 201 (HIS 2010G), HIS 202 (HIS 2020G), ECO 201 (ECN 2801G), ECO 202 (ECN 2802G), GEO 112 (GEO 1200G), PSC211 (PLS 3603), PSC 212 or 213 (PLS 2253G), ANT 111(ANT 2200G).

Complete a single foreign language through the second semester course: FRE 102 (FLF 1102G), GER 102 (FLG 1102G) or SPN 102 (FLS 1102G) .

**ISU TRANSFER INFORMATION:** Offers a BS degree in History-Social Science Teacher Education Sequence

Take HIS 102 (HIS 102), HIS 201 (HIS 135) and HIS 202 (HIS 136). Take PSC 120 (HIS 104A03). Take RE 201, GER 201 or SPN 201(through LAN 115). Students must complete 16-hour interdisciplinary area. Select from ECO 201/202 (ECO 105), GEO 112 (GEO 135), PSC 131 (POL 106), SOC 133 (SOC 106) or SOC 264 (SOC 108). To satisfy the AMALI (Global Studies) graduation requirement, take one of the following courses: ANT 111, 216, GEO 112, HIS 103, 104, 213, HUM 120, PHL 200, 260, PSC 120, 212 or 213. To fulfill the SMT requirement for a BS degree, take one of the following courses: BIO 105, 226, 240, 275, CHM 142, 201, MAT 120 or 282, PHS 107, MAT 117, 201,202, CPS 202 (or MAT 125), MAT 221, BUS 121 (or MAT 282), PHY 156, or 206.

**UIUC Transfer Information**

Take HIS 101 (HIST 141), HIS 102 (HIST 142), HIS 201 (HIST 171), HIS 202 (HIST 172). Take MAT 282 or 120 (STAT 100), PSY 132 (PSY 100), PSC 132 (PS 101), PSC 289 (PS 240). Complete a single foreign language through the 4<sup>th</sup> level: FRE 202 (FR 104), GER 202 (GER 104) or SPN 202 (SPAN 104).



John A. Logan College

# Associate in Arts Degree in History

Transfer Curriculum 000AA0086  
Associate in Arts: 64 Hrs. Min.  
Major Code: 1.1 540101  
Effective Date: Fall 2019

## GENERAL EDUCATION (IAI GECC, 37-38 CREDITS)

The Illinois Articulation Initiative (IAI) General Education Core Curriculum (GECC) requires 12 to 13 courses from the following five areas. Courses selected to meet IAI GECC requirements may also meet course requirements for a specific major.

### IAI COMMUNICATIONS (3 COURSES)

	Sem.	Grade
ENG 101 or ENG 113 (C grade or higher)	_____	_____
ENG 102 (C grade or higher)	_____	_____
COM 115 Speech	_____	_____

### IAI HUMANITIES AND FINE ARTS (3 COURSES)

At least one course must be an IAI Fine Arts elective and one course must be an IAI Humanities elective.

	Sem.	Grade
Fine Arts Elective	_____	_____
Humanities Elective	_____	_____
Humanities or Fine Arts Elective	_____	_____

#### IAI Fine Arts Electives:

Art: ART 111, 220, 221, 291  
Literature: LIT 275  
Music: MUS 105, 225  
Theater: THE 113

#### IAI Humanities Electives:

Foreign Language: FRE 202, GER 202, SPN 202  
History: HIS 101, 102, 213  
Literature: LIT 210, 230, 235, 264, 280, 281, 284, 295  
Philosophy: PHL 111, 121, 131, 200, 260

### IAI MATHEMATICS (1 COURSE)

	Sem.	Grade
MAT Elective	_____	_____

#### IAI Mathematics Electives:

MAT 112, MAT 113, MAT 116, MAT 117, MAT 119, MAT 120, MAT 125/CPS 202, MAT 131, MAT 201, MAT 202, MAT 282

### IAI SOCIAL AND BEHAVIORAL SCIENCES (3 COURSES)

At least two different disciplines (course prefixes) must be represented.

	Sem.	Grade
Social Science Elective	_____	_____
Social Science Elective	_____	_____
Social Science Elective	_____	_____

#### IAI Social and Behavioral Sciences Electives:

Anthropology: ANT 111, 202, 216, 240  
Economics: ECO 201, 202  
Geography: GEO 112  
History: HIS 103, 104, 201, 202  
Political Science: PSC 131, 211, 212, 213, 289  
Psychology: PSY 132, 200, 203, 262  
Sociology: SOC 133, 221, 263, 264

### IAI PHYSICAL/LIFE SCIENCES (2 COURSES)

One course must be at least 4 credit hours and one must include a lab component.

	Sem.	Grade
Life Science Elective	_____	_____
Physical Science Elective	_____	_____

#### IAI Life Science Electives:

Biology: BIO 100, 101, 105, 225  
Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B  
Life Science: SCI 215

#### IAI Physical Science Electives:

Chemistry: CHM 141, 151  
Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B  
Physical Science: PHS 102, 103, 105, 107  
Physics: PHY 121, 155, 205

## MAJOR AND GENERAL ELECTIVE REQUIREMENTS (IAI GECC and major/elective credits must total a minimum of 64 hours, of which 24-25 must be general elective credits.)

IAI GECC and major/elective credits must total a minimum of 64 hours for the degree.) Select courses on this guide in accordance with the Articulation Notes. Students planning to transfer to other four year institutions should follow the recommendations outlined in that colleges course catalog. Course equivalencies may be found on that college website or on the Transferology website at [www.itransfer.org](http://www.itransfer.org)

	Sem.	Grade
ORI 100 (1)	_____	_____
HIS 101 (3) and HIS 102 (3) <b>or</b>	_____	_____
HIS 103 (3) and HIS 104 (3)	_____	_____
Foreign Language I (4)	_____	_____
Foreign Language II (4)	_____	_____
Foreign Language III (4) or Elective	_____	_____
Foreign Language IV (4) or Elective	_____	_____
HIS 201 (3)	_____	_____
HIS 202 (3)	_____	_____

**ARTICULATION NOTES:** Consult with the transfer institution to determine if certain courses require a grade of "C" or higher, or if there is a minimum grade point average for admission to your declared major. Please select courses on this guide in accordance with the Articulation Notes for your transfer institution.

### IAI HISTORY MAJOR PANEL RECOMMENDATIONS

\*Complete a History core by following either Option 1 or Option 2

--Option 1: Take HIS 201 (S2 900), HIS 202 (S2 901) and HIS 101 (H2 901) and HIS 102 (H2 902)

Or

--Option 2: Take HIS 201 (S2 900) and HIS 202 (S2 901) and HIS 103 (S2 912N) and HIS 104 (S2 913N)

\*IAI NOTES: a) Since some schools divide the Historical periods differently, you should complete course sequences at the same school. b) History Majors should take non-history courses to fulfill the IAI Humanities and Fine Arts and the IAI Social and Behavioral Sciences requirements. c) Schools require a competency in a single foreign language through the second, third or fourth level. d) Students pursuing a minor are encouraged to complete one or two requirements in the minor within the AA degree.

**SIUC TRANSFER INFORMATION:** SIUC policy allows for the acceptance and applicability of up to 78 articulated credits toward degree requirements. Take HIS 103 (HIST 101A) and HIS 104 (HIST 101B). Take HIS 201 (HIST 300) and HIS 202 (HIST 301). Take HIS 213 (HIST 380A) as History Elective credit. The 34 Elective Credits requirement are general elective credits open to any course. Pursue a minor? Take addition credits in History.

To satisfy the COLA foreign language requirement, take FRE, GER or SPN 101 and 102. To satisfy the International coursework (Global Studies) requirement, take two course from: ART 220, 223, ANT 111 or 216, GEO 112, HIS 103, 104, 112, PSC 289, 213 or SOC 263. To satisfy a COLA writing requirement, take ENG 113. ENG 113 will match ENGL 291 if you have completed ENG 101 and 102.

**SIUE TRANSFER INFORMATION:** Compete the Associate in Arts degree Take HIS 103 (HIST 112A), HIS 104 (HIST 112B), HIS 201 (HIST 200) and HIS 202 (HIST 201). Take FRE, GER or SPN 101/102 (FR/GER/SPAN 101/102) Take PHL 121 (RA 101) and MAT 113 (QR101) or MAT 131 (MATH 150). A second year of foreign language is recommended for those interested in pursuing graduate study.

**EIU TRANSFER INFORMATION:** Offers a BA degree in History with an International Studies Option

Take HIS 101 (HIS 2560), HIS 102 (HIS 3555), HIS 201 (HIS 2010G), HIS 202 (HIS 2020G), ECO 201 (ECN 2801G), ECO 202 (ECN 2802G), GEO 112 (GEO 1200G), PSC 212 (PLS 2253G). Complete a single foreign language through the second intermediate course: FRE 202 (FLF 2202G), GER 202 (FLG 2202G) or SPN 202 (FLS 2202G) .

**ISU TRANSFER INFORMATION:** Take HIS 102 (HIS 102), HIS 201 (HIS 135) and HIS 202 (HIS 136). Take PSC 120 (HIS 104A03). FRE 201, GER 201 or SPN 201(through LAN 115) is required. To satisfy the AMALI (Global Studies) graduation requirement, take one of the following courses: ANT 111, 216, GEO 112, HIS 103, 104, 213, HUM 120, PHL 200, 260, PSC 120, 212 or 213. A minor in another discipline is recommended. BA degree students not opting for a minor must choose an area of concentration by taking 9 hours in any field other than history or foreign language.

**UIUC Transfer Information**

Take HIS 101 (HIST 141), HIS 102 (HIST 142), HIS 201 (HIST 171), HIS 202 (HIST 172), ENG 101/102 (RHET 105). Complete a single foreign language through the 4<sup>th</sup> level: FRE 202 (FR 104), GER 202 (GER 104) or SPN 202 (SPAN 104).





John A. Logan College

# Associate in Arts Degree in International Studies

Transfer Curriculum: 000AA0086  
Associate in Arts: 64 Hrs. Min.  
Major Code: 1.1 302001  
Effective Date: Fall 2019

## GENERAL EDUCATION (IAI GECC, 37-38 CREDITS)

The Illinois Articulation Initiative (IAI) General Education Core Curriculum (GECC) requires 12 to 13 courses from the following five areas. Courses selected to meet IAI GECC requirements may also meet course requirements for a specific major.

### IAI COMMUNICATIONS (9 HOURS)

	Sem.	Grade
ENG 101 or ENG 113 (C grade or higher)	_____	_____
ENG 102 (C grade or higher)	_____	_____
COM 115 Speech	_____	_____

### IAI HUMANITIES AND FINE ARTS (9 HOURS)

At least one course must be an IAI Fine Arts elective and one course must be an IAI Humanities elective.

	Sem.	Grade
Fine Arts Elective (3)	_____	_____
HIS 101 (3) or Humanities Elective	_____	_____
HIS 102 (3) or Humanities or Fine Arts Elective	_____	_____

#### IAI Fine Arts Electives:

Art: ART 111, 220, 221, 291  
Literature: LIT 275  
Music: MUS 105, 225  
Theater: THE 113

#### IAI Humanities Electives:

Foreign Language: FRE 202, GER 202, SPN 202  
History: HIS 101, 102, 213  
Literature: LIT 210, 230, 235, 264, 280, 281, 284, 295  
Philosophy: PHL 111, 121, 131, 200, 260

### IAI MATHEMATICS (3 HOURS)

	Sem.	Grade
MAT Elective (3)	_____	_____

#### IAI Mathematics Electives:

MAT 112, MAT 113, MAT 116, MAT 117, MAT 119, MAT 120, MAT 125/CPS 202, MAT 131, MAT 201, MAT 202, MAT 209, MAT 282

### IAI SOCIAL AND BEHAVIORAL SCIENCES (9 HOURS)

At least two different disciplines (course prefixes) must be represented.

	Sem.	Grade
ECO 201 (3)	_____	_____
ECO 202 (3)	_____	_____
PSC 212 or PSC 213 (3) or Social Science Elective	_____	_____

#### IAI Social and Behavioral Sciences Electives:

Anthropology: ANT 111, 202, 216, 240  
Economics: ECO 201, 202  
Geography: GEO 112  
History: HIS 103, 104, 201, 202  
Political Science: PSC 131, 211, 212, 213, 289  
Psychology: PSY 132, 200, 203, 262  
Sociology: SOC 133, 221, 263, 264

### IAI PHYSICAL/LIFE SCIENCES (7-8 HOURS)

One course must include a lab component.

	Sem.	Grade
Life Science Elective	_____	_____
Physical Science Elective	_____	_____

#### IAI Life Science Electives:

Biology: BIO 100, 101, 105, 225  
Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B  
Life Science: SCI 215

#### IAI Physical Science Electives:

Chemistry: CHM 141, 151  
Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B  
Physical Science: PHS 102, 103, 105, 107  
Physics: PHY 121, 155, 205

### MAJOR AND GENERAL ELECTIVE REQUIREMENTS (IAI GECC and major/elective credits must total a minimum of 64 hours, of which 24-25 must be general elective credits.)

Consult with the transfer institution to determine if certain courses require a grade of "C" or higher, or if there is a minimum grade point average for admission to your declared major. Please select courses on this guide in accordance with the Articulation Notes for your transfer institution.

Note: Considering the wide variety of degree program options and focus, select courses accordingly with the assistance of an advisor and/or your transfer institution

	Sem.	Grade
Two years single Foreign Language (16) (Select a language through SPN 202, FRE 202 or GER 202).	_____	_____

	Sem.	Grade
ORI 100 (1)	_____	_____
Elective	_____	_____
Elective	_____	_____
Elective	_____	_____
Elective	_____	_____

**ARTICULATION NOTES:** Consult with the transfer institution to assess if courses require a grade of "C" or higher, or if there is a minimum grade point average for admission consideration into your major.

Take HIS 101 and 102 or HIS 103 and 104. Select two from ANT 111 (or 216), ECO 210 (or 202), GEO 112 and HIS 112. Take foreign language through the second intermediate course (students must demonstrate intermediate level proficiency in a targeted language). Students must take five courses under Global and International Comparative Issues. Select from ANT 202, 216, PSC212 (or 213), SOC 263. Five courses are required from one of the following regions (Africa and Middle East, Asia and South Pacific, Europe or Latin America and the Caribbean). Select HIS 213 if you opt for Asia and the South Pacific. Region.

**SIUC:** Offers a B.S degree in Languages, Cultures and International Studies. Students would pursue one of four regional specializations (African and Middle Eastern Studies, Asian and South Pacific Studies, European Studies or Latin American and Caribbean Studies).

All course should be selected in consultation with the International Studies advisor. The following Core Courses are recommended not required.

**EIU:** Offers an International Studies option under Economic, History, Political Science and Business Management. For International Studies in Economics, take ECO 201 and 202. BUS 121, MAT 131 or 117 and MAT 116 or 221. Take foreign language through the second intermediate course (SPN 202, GER 202 or FRE 202). For the International Studies option under Political Science, take PSC 289, 131 and 213 as departmental core courses. Complete a foreign language through the intermediate level (SPN 202, GER 202 or GER 202). Take ECO 201 and 202, HIS 101 and 102 and PSC 211. For the International Studies option under History, take HIS 101, 102, 201 and 202. Take ECO 201 and 202, GEO 112 and PSC 212. Take a single language through the intermediate level (SPN 202, GER 202 or FRE 202).

**Other:** Some institutions offer degrees in areas such as International Business, Foreign Language and International Trade or a major or minor targeting a specific region (Russian Area Studies, Asian Area Studies, etc.). Consult your academic advisor or transfer institution.



John A. Logan College

# Associate in Arts Degree in Mathematics Education

Transfer Curriculum: 000AA0086  
Associate of Arts: 63 Hrs. Min.  
Major Code: 1.1270101A  
Effective Date: Fall 2019

## GENERAL EDUCATION (IAI GECC, 37-38 CREDITS)

The Illinois Articulation Initiative (IAI) General Education Core Curriculum (GECC) requires 12 to 13 courses. Courses selected to meet IAI GECC requirements may also meet course requirements for a specific major.

### IAI COMMUNICATIONS (3 COURSES)

	Sem.	Grade
ENG 101 or ENG 113 (C grade or higher)	_____	_____
ENG 102 (C grade or higher)	_____	_____
COM 115 Speech	_____	_____

### IAI HUMANITIES AND FINE ARTS (2 COURSES)

At least one course must be an IAI Fine Arts elective and one course must be an IAI Humanities elective.

	Sem.	Grade
Fine Arts Elective (3)	_____	_____
Humanities Elective (3)	_____	_____
Fine Arts or Humanities Elective (3)	_____	_____

#### IAI Fine Arts Electives:

Art: ART 111, 220, 221, 291  
Literature: LIT 275  
Music: MUS 105, 225  
Theater: THE 113

#### IAI Humanities Electives:

Foreign Language: FRE 202, GER 202, SPN 202  
History: HIS 101, 102, 213  
Literature: LIT 210, 230, 235, 264, 280, 281, 284, 295  
Philosophy: PHL 111, 121, 131, 200, 260

### IAI MATHEMATICS (1 COURSE)

	Sem.	Grade
MAT 131 (5)	_____	_____

### IAI SOCIAL AND BEHAVIORAL SCIENCES (3 COURSES)

At least two different disciplines (course prefixes) must be represented.

	Sem.	Grade
PSY 132 (3)	_____	_____
Social Science Elective (3)	_____	_____
Social Science Elective (3)	_____	_____

#### IAI Social and Behavioral Sciences Electives:

Anthropology: ANT 111, 202, 216, 240  
Economics: ECO 201, 202  
Geography: GEO 112  
History: HIS 103, 104, 201, 202  
Political Science: PSC 131, 211, 212, 213, 289  
Psychology: PSY 132, 200, 203, 262  
Sociology: SOC 133, 221, 263, 264

### IAI PHYSICAL/LIFE SCIENCES (2 COURSES)

One course must be at least 4 credit hours and include a lab component.

	Sem.	Grade
Life Science Elective	_____	_____
PHY 205 or Physical Science Elective	_____	_____

#### IAI Life Science Electives:

Biology: BIO 100, 101, 105, 225  
Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B  
Life Science: SCI 215

#### IAI Physical Science Electives:

Chemistry: CHM 141, 151  
Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B  
Physical Science: PHS 102, 103, 105, 107  
Physics: PHY 121, 155, 205

## MAJOR AND GENERAL ELECTIVE REQUIREMENTS

(IAI GECC and major/elective credits must total a minimum of 62 hours for the degree. Students should select elective hours that will allow them to complete this 64 hour requirement.) Pre-requisite courses may be required before taking these electives. Consult with the Course Catalog and your advisor

	Sem.	Grade
ORI 100 (1)	_____	_____
MAT 201 (5)	_____	_____
MAT 202 (3) or MAT 205 (3) or Elective	_____	_____
MAT 221 (3)	_____	_____
EDC 202 (3)	_____	_____
EDC 203 (3)	_____	_____
EDC 208 (3) or Elective	_____	_____
One Year Foreign Language or Elective (8)	_____	_____

## ARTICULATION NOTES:

Consult with the transfer institution to assess if certain courses require a grade of "C" or higher, or if there is a minimum grade point average for admission to your declared major. Please select courses on this guide in accordance with the Articulation Notes for your transfer institution.

**TEACHER EDUCATION PROGRAM:** To be considered for admission into a formal Teacher Education Program, qualifying scores on the TAP, ACT plus writing, or SAT must be submitted. Students must earn a grade of "C" or higher in all courses for an endorsement and required in the major. Students must also meet the minimum grade point average required for consideration into the TEP (typically a minimum of 2.5, but may be higher depending on the institution or program option selected). Helpful tips for applying to a Teacher Education Program may be found [here](#):

**IAI Mathematics Major Panel Recommendations include:** MAT 131 (MTH 901), 201 (MTH 902), 202 (MTH 903), 221 (MTH 911), 205 (MTH 912), PHY 205 (PHY 911) and CPS 206 (CS 911)

**SIUC TRANSFER INFORMATION:** For the B.S. degree in Mathematics Education under the College of Education and Human Resources, take EDC 202, 203, MAT 131, 201, 202 or 205, 221, CPS 176 or CPS 206.

**SIUE TRANSFER INFORMATION:** Take MAT 131 (MATH 150), MAT 201 (MATH 152), MAT202 (MATH 250), MAT 221 (MATHE 321), PHY 205 (PHYS 151/151L), EDC 200 (CIED 100), EDC 203 (EPFR 320), EDC 208 (SPE 2000).

**EIU TRANSFER INFORMATION:** Take MAT 131 (MAT 1441G, 201 (MAT 2442), 202 (MAT 2443), 221 (MAT2550), CPS 206 (CSM 2170), EDC 203 (EDF 2555G). Complete the second semester of a foreign language (SPN 202, GER 202, FRE 202) Note IPP 142 will also meet the requirement. Take an approved IAI Humanities/Fine Arts or Social Science course to meet a culturally diverse course requirement (select from HIS 103, 104, 213, LIT 284, 290, 295, PHL 200, 260, ANT 111, 202, 216, GEO 112, PSC 212, 213, SOC 133, 215 or 264.

**ISU TRANSFER INFORMATION:** Take MAT 131 (MAT 145), MAT 201 (MAT 146), MAT 202 (MAT 147), MAT 221 (MAT 175), PSY 132 (PSY 110), SPN 102 or GER 102 or FRE 102 (LAN 112 equivalent), EDC 208 (SED 101) and CPS 206 (IT 168). Fulfill the AMALI degree requirement by selecting one course from the following: ANT 111, 216, GEO112, HIS 103, 104, 213, HUM 120, PHL 200, 260, PSC 120, 212 or 213.



John A. Logan College

# Associate in Arts Degree in Music

Transfer Curriculum 000AA0086  
Associate in Arts: 64 Hrs. Min.  
Major Code: 1.1500921A  
Effective Date: Fall 2019

## GENERAL EDUCATION (IAI GECC, 37-38 CREDITS)

The Illinois Articulation Initiative (IAI) General Education Core Curriculum (GECC) requires 12 to 13 courses. Courses selected to meet IAI GECC requirements may also meet course requirements for a specific major.

### IAI COMMUNICATIONS (3 COURSES)

	Sem.	Grade
ENG 101 or ENG 113 (C grade or higher)	_____	_____
ENG 102 (C grade or higher)	_____	_____
COM 115 Speech	_____	_____

### IAI HUMANITIES AND FINE ARTS (3 COURSES)

At least one course must be an IAI Fine Arts elective and one course must be an IAI Humanities elective.

	Sem.	Grade
MUS 105	_____	_____
Humanities Elective	_____	_____
Humanities or Fine Arts Elective	_____	_____

#### IAI Fine Arts Electives:

Art: ART 111, 220, 221, 291  
Literature: LIT 275  
Music: MUS 105, 225  
Theater: THE 113

#### IAI Humanities Electives:

Foreign Language: FRE 202, GER 202, SPN 202  
History: HIS 101, 102, 213  
Literature: LIT 210, 230, 235, 264, 280, 281, 284, 295  
Philosophy: PHL 111, 121, 131, 200, 260

### IAI MATHEMATICS (1 COURSE)

	Sem.	Grade
MAT Elective	_____	_____

IAI Mathematics Electives:  
MAT 112, MAT 113, MAT 116, MAT 117, MAT 119, MAT 120,  
MAT 125/CPS 202, MAT 131, MAT 201, MAT 202, MAT 282

### IAI SOCIAL AND BEHAVIORAL SCIENCES (3 COURSES)

At least two different disciplines (course prefixes) must be represented.

	Sem.	Grade
Social Science Elective	_____	_____
Social Science Elective	_____	_____
Social Science Elective	_____	_____

#### IAI Social and Behavioral Sciences Electives:

Anthropology: ANT 111, 202, 216, 240  
Economics: ECO 201, 202  
Geography: GEO 112  
History: HIS 103, 104, 201, 202  
Political Science: PSC 131, 211, 212, 213, 289  
Psychology: PSY 132, 200, 203, 262  
Sociology: SOC 133, 221, 263, 264

### IAI PHYSICAL/LIFE SCIENCES (2 COURSES)

One course must be at least 4 credit hours and include a lab component.

	Sem.	Grade
Life Science Elective	_____	_____
Physical Science Elective	_____	_____

#### IAI Life Science Electives:

Biology: BIO 100, 101, 105, 225  
Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B  
Life Science: SCI 215

#### IAI Physical Science Electives:

Chemistry: CHM 141, 151  
Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B  
Physical Science: PHS 102, 103, 105, 107  
Physics: PHY 121, 155, 205

### MAJOR AND GENERAL ELECTIVE REQUIREMENTS (IAI GECC and major/elective credits must total a minimum of 64 hours for the degree.) 27 credits minimum.

#### Aural Skills, \*Theory:

	Sem.	Grade
ORI 100 (1)	_____	_____
MUS 108 (1)	_____	_____
MUS 109 (1)	_____	_____
MUS 121 (3)	_____	_____
MUS 122 (3)	_____	_____
MUS 208 (1)	_____	_____
MUS 209 (1)	_____	_____
MUS 221 (3)	_____	_____
MUS 222 (3)	_____	_____

\*Music Majors take an evaluation exam during the first full week of MUS 121. Those needing remediation are required to take MUS 110 concurrently with MUS 121.

#### Ensemble:

	Sem.	Grade
ORI 100 (1)	_____	_____
MUS 101A or 102A (1)	_____	_____
MUS 101A or 102A (1)	_____	_____
MUS 101A or 102A (1)	_____	_____
MUS 101A or 102A (1)	_____	_____

#### Applied Music Instruction (Piano)

	Sem.	Grade
ORI 100 (1)	_____	_____
MUS 106 (1)	_____	_____
MUS 111B (1)	_____	_____
MUS 111B (1)	_____	_____
MUS 111B (1)	_____	_____
MUS 225 or Elective (3)	_____	_____

### ARTICULATION NOTES:

Consult with the transfer institution to assess if certain courses require a grade of "C" or higher, or if there is a minimum grade point average for admission to your declared major. **Please select courses on this guide in accordance with the transfer requirements for your transfer institution. This guide does not require the two-credit Applied Lessons per semester that are required by many transfer institutions and by other JALC AFA Music Guides.**

**SIUC TRANSFER INFORMATION:** Students planning to major in Music Business should select two courses from ANT 111, ANT 216, ART 220, ART 221, ART 223, GEO 112, GEO 215, HIS 101, HIS 102, HIS 103, HIS 104, HIS 112, HIS 213, PHL 200, PSC 212, PSC 289, and/or SOC 263 to satisfy the International Coursework requirement in the College of Liberal Arts. The College of Liberal Arts also requires two semesters of the same foreign language. IPP 141 and 142 may be used to satisfy the language requirement.

**ISU TRANSFER INFORMATION:** Students should select one course from ANT 111, ANT 216, GEO 112, HIS 103, HIS 104, HUM 120, PHL 200, PHL 260, PSC 120, or PSC 212 to satisfy the Global Studies requirement for all majors.



John A. Logan College

# Associate in Arts Degree in Physical Education/Kinesiology Teacher Education

Transfer Curriculum 000AA0086  
Associate in Arts: 63 Hrs.  
Major Code: 1.131314  
Effective Date: Fall 2019

## GENERAL EDUCATION (IAI GECC, 31-32 CREDITS)

The Illinois Articulation Initiative (IAI) General Education Core Curriculum (GECC) requires 12 to 13 courses from the following five areas. Courses selected to meet IAI GECC requirements may also meet course requirements for a specific major.

### IAI COMMUNICATIONS (3 COURSES)

	Sem.	Grade
ENG 101 or ENG 113 (C grade or higher)	_____	_____
ENG 102 (C grade or higher)	_____	_____
COM 115 Speech	_____	_____

### IAI HUMANITIES AND FINE ARTS (3 COURSES)

At least one course must be an IAI Fine Arts elective and one course must be an IAI Humanities elective.

	Sem.	Grade
Fine Arts Elective	_____	_____
Humanities Elective	_____	_____
Fine Arts or Humanities Elective	_____	_____

#### IAI Fine Arts Electives:

Art: ART 111, 220, 221, 291

Literature: LIT 275

Music: MUS 105, 225

Theater: THE 113

#### IAI Humanities Electives:

Foreign Language: FRE 202, GER 202, SPN 202

History: HIS 101, 102, 213

Literature: LIT 210, 230, 235, 264, 280, 281, 284, 295

Philosophy: PHL 111, 121, 131, 200, 260

### IAI MATHEMATICS (1 COURSE)

	Sem.	Grade
Math Elective	_____	_____

#### IAI Mathematics Electives:

MAT 112, MAT 113, MAT 116, MAT 117, MAT 119, MAT 120, MAT 125/CPS 202, MAT 131, MAT 201, MAT 202, MAT 282

### IAI SOCIAL AND BEHAVIORAL SCIENCES (3 COURSES)

At least two different disciplines (course prefixes) must be represented.

	Sem.	Grade
PSC 132 or Social Science Elective	_____	_____
Social Science Elective	_____	_____
Social Science Elective	_____	_____

#### IAI Social and Behavioral Sciences Electives:

Anthropology: ANT 111, 202, 216, 240

Economics: ECO 201, 202

Geography: GEO 112

History: HIS 103, 104, 201, 202

Political Science: PSC 131, 211, 212, 213, 289

Psychology: PSY 132, 200, 203, 262

Sociology: SOC 133, 221, 263, 264

### IAI PHYSICAL/LIFE SCIENCES (2 COURSES)

One course must be at least 4 credit hours and include a lab component.

	Sem.	Grade
Life Science Elective	_____	_____
Physical Science Elective	_____	_____

#### IAI Life Science Electives:

Biology: BIO 100, 101, 105, 225

Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B

Life Science: SCI 215

#### IAI Physical Science Electives:

Chemistry: CHM 141, 151

Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B

Physical Science: PHS 102,103,105,107

Physics: PHY 121, 155, 205

**MAJOR AND GENERAL ELECTIVE REQUIREMENTS** (IAI GECC and major/elective credits **must total a minimum of 32 hours** for the degree. Students should select elective hours that will allow them to complete this 62 hour requirement.) **Pre-requisite courses may be required before taking these electives. Consult with the Course Catalog and your advisor.**

	Sem.	Grade
ORI 100 (1)	_____	_____
BIO 105 or Elective	_____	_____
EDC 202 or Elective	_____	_____
EDC 203 or Elective	_____	_____
Elective	_____	_____
Elective	_____	_____
Elective	_____	_____
Elective	_____	_____
Elective	_____	_____
Elective	_____	_____
Elective	_____	_____
Elective	_____	_____
Elective	_____	_____
Elective	_____	_____

**ARTICULATION NOTES:** Consult with the transfer institution to assess if certain courses requires a grade of "C" or higher, or if there is a minimum grade point average for admission to your declared major. Please select courses on this guide in accordance with the Articulation Notes for your transfer institution.

**TEACHER EDUCATION PROGRAM:** To be considered for admission into a formal Teacher Education Program, qualifying scores on the TAP, ACT plus writing, or SAT must be submitted. Students must earn a grade of "C" or higher in all courses for an endorsement and required in the major. Students must also meet the minimum grade point average required for consideration into the TEP (typically a minimum of 2.5, but may be higher depending on the institution or program option selected). Helpful tips for applying to a Teacher Education Program may be found here:

[https://www.jalc.edu/files/uploads/global/catalog/pdfs/tips\\_for\\_ed\\_majors.pdf](https://www.jalc.edu/files/uploads/global/catalog/pdfs/tips_for_ed_majors.pdf)

**SIUC TRANSFER INFORMATION:** EDC 202, 203, BIO 105 or 205, and PSY 132 are required. It is recommended that students complete a minor in coaching.

**SIUE TRANSFER INFORMATION:** The teacher education option in Physical Education for secondary education is no longer offered.

**EIU TRANSFER INFORMATION:** PSC 131, BIO 205, HTH 118, and EDC 203 are required.

**ISU TRANSFER INFORMATION:** PSY 132, PHY 121, or 155, BIO 205, and 206 are recommended courses. Students should select one course from ANT 111, ANT 216, GEO 112, HIS 103, HIS 104, HUM 120, PHL 200, PHL 260, PSC 120, or PSC 212 to satisfy the Global Studies requirement for all majors.



John A. Logan College

# Associate in Arts Degree in Political Science

Transfer Curriculum 000AA0086  
Associate in Arts: 64 Hrs.  
Major Code: 1.1451001A  
Effective Date: Fall 2019

## GENERAL EDUCATION (IAI GECC, 37-38 CREDITS)

The Illinois Articulation Initiative (IAI) General Education Core Curriculum (GECC) requires 12 to 13 courses. Courses selected to meet IAI GECC requirements may also meet course requirements for a specific major.

### IAI COMMUNICATIONS (3 COURSES)

	Sem.	Grade
ENG 101 or ENG 113 (C grade or higher)	_____	_____
ENG 102 (C grade or higher)	_____	_____
COM 115 Speech	_____	_____

### IAI HUMANITIES AND FINE ARTS (3 COURSES)

At least one course must be an IAI Fine Arts elective and one course must be an IAI Humanities elective.

	Sem.	Grade
Fine Arts Elective	_____	_____
Humanities Elective	_____	_____
Humanities or Fine Arts Elective	_____	_____

#### IAI Fine Arts Electives:

Art: ART 111, 220, 221, 291  
Literature: LIT 275  
Music: MUS 105, 225  
Theater: THE 113

#### IAI Humanities Electives:

Foreign Language: FRE 202, GER 202, SPN 202  
History: HIS 101, 102, 213  
Literature: LIT 210, 230, 235, 264, 280, 281, 284, 295  
Philosophy: PHL 111, 121, 131, 200, 260

### IAI MATHEMATICS (1 COURSE)

	Sem.	Grade
Math Elective	_____	_____

#### IAI Mathematics Electives:

MAT 112, MAT 113, MAT 116, MAT 117, MAT 119, MAT 120, MAT 125/CPS 202, MAT 131, MAT 201, MAT 202, MAT 282

### IAI SOCIAL AND BEHAVIORAL SCIENCES (3 COURSES)

At least two different disciplines (course prefixes) must be represented.

	Sem.	Grade
PSC 131	_____	_____
Social Science Elective	_____	_____
Social Science Elective	_____	_____

#### IAI Social and Behavioral Sciences Electives:

Anthropology: ANT 111, 202, 216, 240  
Economics: ECO 201, 202  
Geography: GEO 112  
History: HIS 103, 104, 201, 202  
Political Science: PSC 131, 211, 212, 213, 289  
Psychology: PSY 132, 200, 203, 262  
Sociology: SOC 133, 221, 263, 264

### IAI PHYSICAL/LIFE SCIENCES (2 COURSES)

One course must be at least 4 credit hours and include a lab component.

	Sem.	Grade
Life Science Elective	_____	_____
Physical Science Elective	_____	_____

#### IAI Life Science Electives:

Biology: BIO 100, 101, 105, 225  
Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B  
Life Science: SCI 215

#### IAI Physical Science Electives:

Chemistry: CHM 141, 151  
Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B  
Physical Science: PHS 102, 103, 105, 107  
Physics: PHY 121, 155, 205

**MAJOR AND GENERAL ELECTIVE REQUIREMENTS** (IAI GECC and major/elective credits must total a minimum of 64 hours for the degree).

Consult with the transfer institution to determine if certain courses require a grade of "C" or higher, or if there is a minimum grade point average for admission to your declared major. Please select courses on this guide in accordance with the Articulation Notes for your transfer institution.

	Sem.	Grade
ORI 100 (1)	_____	_____
PSC 211 or Elective	_____	_____
PSC 212 or Elective	_____	_____
PSC 213 or Elective	_____	_____
PSC 289 or Elective	_____	_____
Foreign Language I or Elective	_____	_____
Foreign Language II or Elective	_____	_____
Elective	_____	_____
Elective	_____	_____
Elective	_____	_____

**ARTICULATION NOTES:** This guide follows the recommendations for the IAI Major Panel.

**SIUC TRANSFER INFORMATION:** PSC 131, 212, and 289 are required for the major. PSC 212 and 289 will also satisfy the International Coursework requirement in Liberal Arts. Two semesters of the same foreign language are also required. IPP 141 and 142 may be used to satisfy the language requirement. The major offers specializations in Pre-Law, Public Service and International Relations.

**SIUE TRANSFER INFORMATION:** Students must complete three credits from four of the six Political Science subfields. PSC 211 or 215 will satisfy the American Government and Politics subfield, and PSC 212 will satisfy the International Relations subfield.

**EIU TRANSFER INFORMATION:** PSC 131, 211, 212 and 289 are required. Two semesters of the same foreign language are required (two years of a single language in high school with a grade of "C" or higher will also satisfy this requirement). The International Studies Option also requires HIS 101, 102, ECO 201, and 202, as well as proficiency in foreign language demonstrated by completing a course at the intermediate level or passing a language proficiency test.

**ISU TRANSFER INFORMATION:** PSC 131 and 212 are required. MAT 113 is recommended. PSC 211 and 215 are required for the American Politics concentration. The B.S. Degree Requires two semesters of the same language (three years of the same language in high school with a grade of "C" or higher will satisfy this requirement). The B.A. Degree requires three semesters of the same foreign language. IPP 141 and 142 may be used to satisfy the language requirement. Students should select one course from ANT 111, ANT 216, GEO 112, HIS 103, HIS 104, HUM 120, PHL 200, PHL 260, PSC 120, or PSC 212 to satisfy the global Studies requirement for all majors.





John A. Logan College

# Associate in Arts Degree in Pre-Law

Transfer Curriculum 000AA0086  
Associate in Arts: 63 Hrs.  
Major Code: 1.1220001A  
Effective Date: Fall 2019

## GENERAL EDUCATION (IAI GECC, 37-38 CREDITS)

The Illinois Articulation Initiative (IAI) General Education Core Curriculum (GECC) requires 12 to 13 courses. Courses selected to meet IAI GECC requirements may also meet course requirements for a specific major.

### IAI COMMUNICATIONS (3 COURSES)

	Sem.	Grade
ENG 101 or ENG 113 (C grade or higher)	_____	_____
ENG 102 (C grade or higher)	_____	_____
COM 115 Speech	_____	_____

### IAI HUMANITIES AND FINE ARTS (3 COURSES)

At least one course must be an IAI Fine Arts elective and one course must be an IAI Humanities elective.

	Sem.	Grade
Fine Arts Elective	_____	_____
PHL 121 or Humanities Elective	_____	_____
Humanities or Fine Arts Elective	_____	_____

#### IAI Fine Arts Electives:

Art: ART 111, 220, 221, 291  
Literature: LIT 275  
Music: MUS 105, 225  
Theater: THE 113

#### IAI Humanities Electives:

Foreign Language: FRE 202, GER 202, SPN 202  
History: HIS 101, 102, 213  
Literature: LIT 210, 230, 235, 264, 280, 281, 284, 295  
Philosophy: PHL 111, 121, 131, 200, 260

### IAI MATHEMATICS (1 COURSE)

	Sem.	Grade
Math Elective	_____	_____

#### IAI Mathematics Electives:

MAT 112, MAT 113, MAT 116, MAT 117, MAT 119, MAT 120, MAT 125/CPS 202, MAT 131, MAT 201, MAT 202, MAT 282

### IAI SOCIAL AND BEHAVIORAL SCIENCES (3 COURSES)

At least two different disciplines (course prefixes) must be represented.

	Sem.	Grade
PSC 131 or Social Science Elective	_____	_____
PSC 212 or Social Science Elective	_____	_____
Social Science Elective	_____	_____

#### IAI Social and Behavioral Sciences Electives:

Anthropology: ANT 111, 202, 216, 240  
Economics: ECO 201, 202  
Geography: GEO 112  
History: HIS 103, 104, 201, 202  
Political Science: PSC 131, 211, 212, 213, 289  
Psychology: PSY 132, 200, 203, 262  
Sociology: SOC 133, 221, 263, 264

### IAI PHYSICAL/LIFE SCIENCES (2 COURSES)

One course must be at least 4 credit hours and include a lab component.

	Sem.	Grade
Life Science Elective	_____	_____
Physical Science Elective	_____	_____

#### IAI Life Science Electives:

Biology: BIO 100, 101, 105, 225  
Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B  
Life Science: SCI 215

#### IAI Physical Science Electives:

Chemistry: CHM 141, 151  
Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B  
Physical Science: PHS 102, 103, 105, 107  
Physics: PHY 121, 155, 205

## MAJOR AND GENERAL ELECTIVE REQUIREMENTS (IAI GECC and major/elective credits must total a minimum of 62 hours.)

Consult with the transfer institution to determine if certain courses require a grade of "C" or higher, or if there is a minimum grade point average for admission to your declared major. Please select courses on this guide in accordance with the Articulation Notes for your transfer institution.

	Sem.	Grade
ORI 100 (1)	_____	_____
PSC 220 or Elective	_____	_____
Foreign Language I or Elective	_____	_____
Foreign Language II or Elective	_____	_____
Elective	_____	_____
Elective	_____	_____
Elective	_____	_____
Elective	_____	_____

**SIUC TRANSFER TRANSFERINFORMATION:** Students must select a major, typically in the College of Liberal Arts, when they transfer. Students should select two courses from ANT 111, ANT 216, ART 220, ART 221, ART 223, ECO 150I, GEO112, GEO 215, HIS 101, HIS 102, HIS 103, HIS 104, HIS 112, HIS 213, PHL 200, PSC 212, PSC 289, and/or SOC 263 to satisfy the International Coursework requirement in the College of Liberal Arts. The College of Liberal Arts also requires two semesters of the same foreign language. IPP 141 and 142 maybe used to satisfy the language requirement.

**ISU TRANSFER INFORMATION:** Students should select one course from ANT111, ANT 216, GEO 112, HIS 103, HIS 104, HUM 120, PHL 200, PHL 260, PSC 120, or PSC 212 to satisfy the Global Studies requirement for all majors.



John A. Logan College

# Associate in Arts Degree in Psychology

Transfer Curriculum 000AA0086

Associate in Arts: 64 Hrs.

Major Code: 1.1420101

Effective Date: Fall 2019

## GENERAL EDUCATION (IAI GECC, 37-38 CREDITS)

The Illinois Articulation Initiative (IAI) General Education Core Curriculum (GECC) requires 12 to 13 courses. Courses selected to meet IAI GECC requirements may also meet course requirements for a specific major.

### IAI COMMUNICATIONS (3 COURSES)

	Sem.	Grade
ENG 101 or ENG 113 (C grade or higher)	_____	_____
ENG 102 (C grade or higher)	_____	_____
COM 115 Speech	_____	_____

### IAI HUMANITIES AND FINE ARTS (3 COURSES)

At least one course must be an IAI Fine Arts elective and one course must be an IAI Humanities elective.

	Sem.	Grade
Fine Arts Elective	_____	_____
PHL 121 or Humanities Elective	_____	_____
Humanities or Fine Arts Elective	_____	_____

#### IAI Fine Arts Electives:

Art: ART 111, 220, 221, 291

Literature: LIT 275

Music: MUS 105, 225

Theater: THE 113

#### IAI Humanities Electives:

Foreign Language: FRE 202, GER 202, SPN 202

History: HIS 101, 102, 213

Literature: LIT 210, 230, 235, 264, 280, 281, 284, 295

Philosophy: PHL 111, 121, 131, 200, 260

### IAI MATHEMATICS (1 COURSE)

	Sem.	Grade
MAT 119 or MAT 120 or 282	_____	_____

### IAI SOCIAL AND BEHAVIORAL SCIENCES (3 COURSES)

At least two different disciplines (course prefixes) must be represented.

	Sem.	Grade
PSY 132 (Recommended in the first semester)	_____	_____
Social Science Elective	_____	_____
Social Science Elective	_____	_____

#### IAI Social and Behavioral Sciences Electives:

Anthropology: ANT 111, 202, 216, 240

Economics: ECO 201, 202

Geography: GEO 112

History: HIS 103, 104, 201, 202

Political Science: PSC 131, 211, 212, 213, 289

Psychology: PSY 132, 200, 203, 262

Sociology: SOC 133, 221, 263, 264

### IAI PHYSICAL/LIFE SCIENCES (2 COURSES)

One course must be at least 4 credit hours and one must include a lab component.

	Sem.	Grade
Life Science Elective	_____	_____
Physical Science Elective	_____	_____

#### IAI Life Science Electives:

Biology: BIO 100, 101, 105, 225

Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B

Life Science: SCI 215

#### IAI Physical Science Electives:

Chemistry: CHM 141, 151

Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B

Physical Science: PHS 102, 103, 105, 107

Physics: PHY 121, 155, 205

**MAJOR AND GENERAL ELECTIVE REQUIREMENTS-27 Hours** (IAI GECC and major/elective credits must total 64 hours for the degree.)

**Please select courses on this guide in accordance with the Articulation Notes.**

	Sem.	Grade
ORI 100 (1)	_____	_____
PSY 200-offered in spring only	_____	_____
PSY 270-offered in fall only	_____	_____
PSY 203 or Elective (PSY 203-offered in spring only)	_____	_____
PSY 262 or Elective	_____	_____
PSY 285 or Elective (PSY 285-offered in fall only)	_____	_____
Foreign Language (6-8)	_____	_____
MAT 108, 111, 112, 113, or 131 or Elective	_____	_____

**ARTICULATION NOTES:** Consult with the transfer institution to assess if certain courses require a grade of "C" or higher, or if there is a minimum grade point average for admission to your declared major. **Students planning to transfer to other four-year universities should follow the recommendations/requirements outlined in that college's course catalog. Course equivalencies may be found on the college's website or the Transferology website at [www.itransfer.org](http://www.itransfer.org), following the links under Transfer Credit Beyond IAI.**

**IAI PSYCHOLOGY MAJOR PANEL:** Take PSY 132 (\$6 900) as IAI GECC credit. Take PSY 200 (IAI PSY 908) and PSY 270 (IAI PSY 905) as IAI Core Course requirements. Additional recommendations include PSY 262 (IAI \$6 903) and PSY 203 (IAI \$6 904). Take MAT 120 or 282 (IAI M1 902). MAT 116 and/or 131 are recommendations in addition to the MAT 120 or 282.

**SIUC TRANSFER INFORMATION:** Take ENG 113 with ENG 101 and 102. ENG 113 will then equate to ENG 291 at SIUC. Take two course from the following list to meet the International Coursework requirement (ART 220, 223, ANT 111, 216, GEO 112, HIS 03, 104, 213, PSC 213, 289 or SOC 263). Complete on year of a single foreign language (FRE 102, GER 102 or SPN 102). For Psychology Electives, in Group A, take 4 courses from PSY262 (PSYC 301), PSY 203 (PSYC 303), PSY 285 (PSYC 305), PSY 200 (PSYC 307) or PSY 270 (PSYC 331). In Group D, take MAT 120 or MAT 282 (MATH 282). MAT 120 or 282 will meet the IAI GECC MAT requirement.

A Parent Training Specialization is also available under the Psychology Major.

**--SIUC Policy allows for the acceptance of up to 78 articulated credits to transfer into SIUC from JALC. These articulated credits should be applicable toward fulfilling the 120 credits required for the B.A. degree in Psychology.**

**SIUE TRANSFER INFORMATION:** Complete Associate in Arts degree requirements prior to transfer. SIU-E offers both a BA and BS degree in Psychology.

Take PSY 132 (PSYC 111). Complete one year (two courses) in a single foreign language (FRE 101/102, GER 101/102 or SPN 101/102). Take PHL 121 (RA 101). Take PSY 262 (PSYC 201) or PSY 203 (PSYC 203). Take PSY 200 (PSYC 206). Take MAT 113 (QR 113) or MAT 131 (MATH 131).

**EIU TRANSFER INFORMATION:** Complete Associate in Arts degree prior to transfer.

Take PSY 132 (PSY 1879G). Complete the second semester of a single foreign language (FRE 102, GER 102 or SPN 102) as a graduation requirement. Take MAT 108 ((MAT 1271) or higher. From Group A, Abnormal/ Social Group, take two from: PSY 205 (PSY 2590), PSY 270 (PSY 3780) or PSY 200 (PSY 3870). From Group D, Developmental Group, take one from: PSY 262 (PSY 3515) or PSY 203 (PSY 3521). Select six hours of Psychology Electives from courses not selected from Groups A and D.

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**ISU TRANSFER INFORMATION:** Complete the Associate in Arts degree before transferring.

Select one MAT course from: MAT 116 (MAT120), MAT 117 (MAT 121), MAT 111 (MAT 144) or MAT 131 (MAT 145). Take PHL 131 (PHI 101). Take PSY 132 (PSY 111), PSY 200 (PSY 223) and PSY 205 (PSY 233). In the IAI GECC Physical Science and Life Sciences areas, Psychology majors must complete two laboratory courses. A Biology course with a lab is especially recommended for all degrees under the College of Arts and Sciences. For the BA in Psychology, successful completion of the third course in a single foreign language is required (FRE 201, GER 201 or SPN 20). Take one course to complete the AMALI graduation requirement: ANT 111, 216, GEO 112, HIS 103, 104, 213, HUM 120, PHL 200, 260, PSC 120, 212 or 213.

UIUC

Complete the fourth level of a single foreign language prior to transfer (FRE 202, GER 202 or SPN 202). Take PSY 132 (PSYC 100), ENG 101 and 102 (RHET 105) and MAT 282 or 120 (STAT 100). Complete three of the following: PSY 200 (PSYC 201), PSY 262 (PSYC 216), PSY 270 (PSYC 238) or PSY 285 (PSYC 250).



John A. Logan College

# Associate in Arts Degree in Social Work

Transfer Curriculum 000AA0086  
Associate in Arts: 63 Hrs.  
Major Code: 1.1440701  
Effective Date: Fall 2019

## GENERAL EDUCATION (IAI GECC, 37-38 CREDITS)

The Illinois Articulation Initiative (IAI) General Education Core Curriculum (GECC) requires 12 to 13 courses. Courses selected to meet IAI GECC requirements may also meet course requirements for a specific major.

### IAI COMMUNICATIONS (3 COURSES)

	Sem.	Grade
ENG 101 or ENG 113 (C grade or higher)	_____	_____
ENG 102 (C grade or higher)	_____	_____
COM 115 Speech	_____	_____

### IAI HUMANITIES AND FINE ARTS (3 COURSES)

At least one course must be an IAI Fine Arts elective and one course must be an IAI Humanities elective.

	Sem.	Grade
Fine Arts Elective	_____	_____
Humanities Elective	_____	_____
Humanities or Fine Arts Elective	_____	_____

#### IAI Fine Arts Electives:

Art: ART 111, 220, 221, 291  
Literature: LIT 275  
Music: MUS 105, 225  
Theater: THE 113

#### IAI Humanities Electives:

Foreign Language: FRE 202, GER 202, SPN 202  
History: HIS 101, 102, 213  
Literature: LIT 210, 230, 235, 264, 280, 281, 284, 295  
Philosophy: PHL 111, 121, 131, 200, 260

### IAI MATHEMATICS (1 COURSE)

	Sem.	Grade
MAT 120, 282, or Math Elective	_____	_____

#### IAI Mathematics Electives:

MAT 112, MAT 113, MAT 116, MAT 117, MAT 119, MAT 120, MAT 125/CPS 202, MAT 131, MAT 201, MAT 202, MAT 282

### IAI SOCIAL AND BEHAVIORAL SCIENCES (3 COURSES)

At least two different disciplines (course prefixes) must be represented.

	Sem.	Grade
PSC 131 or Social Science Elective	_____	_____
PSY 132 or Social Science Elective	_____	_____
ECO 201, 202, or Social Science Elective	_____	_____

#### IAI Social and Behavioral Sciences Electives:

Anthropology: ANT 111, 202, 216, 240  
Economics: ECO 201, 202  
Geography: GEO 112  
History: HIS 103, 104, 201, 202  
Political Science: PSC 131, 211, 212, 213, 289  
Psychology: PSY 132, 200, 203, 262  
Sociology: SOC 133, 221, 263, 264

### IAI PHYSICAL/LIFE SCIENCES (2 COURSES)

One course must be at least 4 credit hours and include a lab component.

	Sem.	Grade
BIO 100 or BIO 101	_____	_____
Physical Science Elective	_____	_____

#### IAI Life Science Electives:

Biology: BIO 100, 101, 105, 225  
Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B  
Life Science: SCI 215

#### IAI Physical Science Electives:

Chemistry: CHM 141, 151  
Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B  
Physical Science: PHS 102, 103, 105, 107  
Physics: PHY 121, 155, 205

## MAJOR AND GENERAL ELECTIVE REQUIREMENTS (IAI GECC and major/elective credits must total a minimum of 62 hours for the degree).

Consult with the transfer institution to determine if certain courses require a grade of "C" or higher, or if there is a minimum grade point average for admission to your declared major. Please select courses on this guide in accordance with the Articulation Notes for your transfer institution.

	Sem.	Grade
ORI 100 (1)	_____	_____
SOCW 275	_____	_____
SOC 133 or Elective	_____	_____
ANT 240 or Elective	_____	_____
Foreign Language or Electives	_____	_____
Elective	_____	_____
Elective	_____	_____
Elective	_____	_____
Elective	_____	_____

**ARTICULATION NOTES:** Consult with the transfer institution to assess if certain courses require a grade of "C" or higher or if there is a minimum grade point average of admission into desired major. Prior to transfer, complete the Associate in Arts with as many of the posted courses required at your transfer institution.

**SIUC TRANSFER INFORMATION:** For the BSW degree under the College of Education and Human Resources, take ANT 240 (ANTHR 240A), BIO 100 or 101 (PLB 115), SOC 133 (SOC 108), PSC 131 (POLS 114), PSY 132 (PSYC 102), ECO 240 (ECON 113 or 114), SOCW 275 (SOCW 275). Take an introductory statistics course (MAT 120 or 282 or BUS 121). General Electives (21 credits) may be used to pursue a minor in a field related to Social Work.

**SIUE TRANSFER INFORMATION:** Take BIO 100 (BIOL 111), ENG 101 or 113 (ENG 101), PSY 132 (PSYC 111), SPE 115 (ACS 101), MAT 113 OR 131 (QR 101 or MATH 150), ANT 216 (ANTH 111B), ENG 102 (SNG 102), PHL 121 (RA 101), PSC 131 (POLS 112), HIS 202 (HIST 201), PSY 200 (PSYC 206), SPN, GER or FRE 101 (Foreign Language 101), and PHL 111 or 131 or 200 or 260 (PHIL BHUM course).

**ISU TRANSFER INFORMATION:** Take SOCW 275 (SWK 170), one Human-Biology BIO 100 or 101 (BSC 101), one statistics course-MAT 282 or 120 (ECO 138) or BUS 121 (MQM 100), one Sociology course- SOC 133 (SOC 108), two Psychology courses-PSY 132 ( PSY 110), PSY 270 (PSY 350 or similar course), one Economics course-ECO 240 or 241 (microeconomics or macroeconomics equivalent), one Political Science course-PSC 131 (POL106) and SPN 201 or GER 201 or FRE 201 (an equivalent to LAN 115). To satisfy the AMALI (former Global Studies) degree requirement, select one course from ANT 111, 216, GEO 112, HIS 101,104, 213, HUM 120, PHL 200, 260, PSC 120, 212 or 213

For admission into the BSW, a minimum of 25 hours of pre-approved volunteer or paid work experience in a social agency within the last two years is required. A grade of "C" or better is required in all courses required for the major including pre-requisites.



John A. Logan College

# Associate in Arts Degree in Sociology

Transfer Curriculum 000AA0086  
Associate in Arts: 64 Hrs.  
Major Code: 1.1451101  
Effective Date: Fall 2019

## GENERAL EDUCATION (IAI GECC, 37-38 CREDITS)

The Illinois Articulation Initiative (IAI) General Education Core Curriculum (GECC) requires 12 to 13 courses. Courses selected to meet IAI GECC requirements may also meet course requirements for a specific major.

### IAI COMMUNICATIONS (3 COURSES)

	Sem.	Grade
ENG 101 or ENG 113 (C grade or higher)	_____	_____
ENG 102 (C grade or higher)	_____	_____
COM 115 Speech	_____	_____

### IAI HUMANITIES AND FINE ARTS (3 COURSES)

At least one course must be an IAI Fine Arts elective and one course must be an IAI Humanities elective.

	Sem.	Grade
Fine Arts Elective	_____	_____
Humanities Elective	_____	_____
Humanities or Fine Arts Elective	_____	_____

#### IAI Fine Arts Electives:

Art: ART 111, 220, 221, 291  
Literature: LIT 275  
Music: MUS 105, 225  
Theater: THE 113

#### IAI Humanities Electives:

Foreign Language: FRE 202, GER 202, SPN 202  
History: HIS 101, 102, 213  
Literature: LIT 210, 230, 235, 264, 280, 281, 284, 295  
Philosophy: PHL 111, 121, 131, 200, 260

### IAI MATHEMATICS (1 COURSE)

	Sem.	Grade
MAT 120, 116, or Math Elective	_____	_____

#### IAI Mathematics Electives:

MAT 112, MAT 113, MAT 116, MAT 117, MAT 119, MAT 120, MAT 125/CPS 202, MAT 131, MAT 201, MAT 202, MAT 282

### IAI SOCIAL AND BEHAVIORAL SCIENCES (3 COURSES)

At least two different disciplines (course prefixes) must be represented.

	Sem.	Grade
SOC 133	_____	_____
ANT 111, 216, or Elective	_____	_____
Social Science Elective	_____	_____

#### IAI Social and Behavioral Sciences Electives:

Anthropology: ANT 111, 202, 216, 240  
Economics: ECO 201, 202  
Geography: GEO 112  
History: HIS 103, 104, 201, 202  
Political Science: PSC 131, 211, 212, 213, 289  
Psychology: PSY 132, 200, 203, 262  
Sociology: SOC 133, 221, 263, 264

### IAI PHYSICAL/LIFE SCIENCES (2 COURSES)

One course must be at least 4 credit hours and include a lab component.

	Sem.	Grade
Life Science Elective	_____	_____
Physical Science Elective	_____	_____

#### IAI Life Science Electives:

Biology: BIO 100, 101, 105, 225  
Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B  
Life Science: SCI 215

#### IAI Physical Science Electives:

Chemistry: CHM 141, 151  
Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B  
Physical Science: PHS 102, 103, 105, 107  
Physics: PHY 121, 155, 205

## MAJOR AND GENERAL ELECTIVE REQUIREMENTS (IAI GECC and major/elective credits must total a minimum of 64 hours for the degree.)

Consult with the transfer institution to determine if certain courses require a grade of "C" or higher, or if there is a minimum grade point average for admission to your declared major. Please select courses on this guide in accordance with the Articulation Notes for your transfer institution.

	Sem.	Grade
ORI 100 (1)	_____	_____
SOC 221 or Elective	_____	_____
SOC 263 or Elective	_____	_____
SOC 264 or Elective	_____	_____
Foreign Language I or Elective	_____	_____
Foreign Language II or Elective	_____	_____
Elective	_____	_____
Elective	_____	_____

**ARTICULATION NOTES:** Consult the transfer institution for specific requirements.

**IAI SOCIOLOGY MAJOR INFORMATION:** SOC 133, 215, 263, and 264 are recommended courses for the IAI major panel.

**SIUC TRANSFER INFORMATION:** SOC 133 is required. SOC 263 will count as a 300 level major course for the degree. Students should select two courses from ANT 111, ANT 216, ART 220, ART 221, ART 223, ECO 150I, GEO 112, GEO 215, HIS 101, HIS 102, HIS 103, HIS 104, HIS 112, HIS 213, PHL 200, PSC 212, PSC 289, and/or SOC 263 to satisfy the International Coursework requirement in the College of Liberal Arts. Two semesters of the same foreign language are also required, IPP 141 and 142 may be used to satisfy this requirement.

**SIUE TRANSFER INFORMATION:** SOC 133 is required. Students may select two courses from SOC 221, 263 and 264 to count as required elective hours for the major. A grade of "C" or higher is required in all transfer sociology courses. PHL 121 is recommended. Two semesters of the same foreign language is only required for the B.A. degree. The B.S. degree does not require foreign language. A specialization in Employee Relations is also offered.

**EIU TRANSFER INFORMATION:** SOC 133 and ANT 111 or 216 are required. Approved sociology electives include SOC 221, 263, SOCW 275, and CRJ 103. Two semesters of the same foreign language are required (two years of a single language in high school with a grade of "C" or higher will also satisfy this requirement).

**ISU TRANSFER INFORMATION:** SOC 133 and 264 are required. Approved electives include SOC 221 and 263. Two courses from ANT 111, 202, 216, and 240 are also required. HUM 152 will count as a major elective. For the B.S. degree, two semesters of the same foreign language are required (three years of the same language in high school with a grade of "C" or higher will satisfy this requirement). The B.A. degree requires three semesters of the same foreign language. Students should select one course from ANT 111, ANT 216, GEO 112, HIS 103, HIS 104, HUM 120, PHL 200, PHL 260, PSC 120, or PSC 212 to satisfy the Global Studies requirement for all majors.



John A. Logan College

# Associate in Arts Degree in Special Education

Transfer Curriculum 000AA0086

Associate in Arts: 63 Hrs. Min.

Major Code: 1.1 131001

Effective Date: Fall 2019

## GENERAL EDUCATION (IAI GECC, 37-38 CREDITS)

The Illinois Articulation Initiative (IAI) General Education Core Curriculum (GECC) requires 12 to 13 courses from the following five areas. Courses selected to meet IAI GECC requirements may also meet course requirements for a specific major.

### IAI COMMUNICATIONS (3 COURSES)

	Sem.	Grade
ENG 101 or ENG 113 (C grade or higher)	_____	_____
ENG 102 (C grade or higher)	_____	_____
COM 115 Speech	_____	_____

### IAI HUMANITIES AND FINE ARTS (3 COURSES)

At least one course must be an IAI Fine Arts elective and one course must be an IAI Humanities elective.

	Sem.	Grade
Fine Arts Elective	_____	_____
Humanities Elective	_____	_____
Humanities or Fine Arts Elective	_____	_____

#### IAI Fine Arts Electives:

Art: ART 111, 220, 221, 291  
Literature: LIT 275  
Music: MUS 105, 225  
Theater: THE 113

#### IAI Humanities Electives:

Foreign Language: FRE 202, GER 202, SPN 202  
History: HIS 101, 102, 213  
Literature: LIT 210, 230, 235, 264, 280, 281, 284, 295  
Philosophy: PHL 111, 121, 131, 200, 260

### IAI MATHEMATICS (1 COURSE)

	Sem.	Grade
MAT 209	_____	_____

### IAI SOCIAL AND BEHAVIORAL SCIENCES (3 COURSES)

At least two different disciplines (course prefixes) must be represented.

	Sem.	Grade
PSY 132 or Social Science Elective	_____	_____
Social Science Elective	_____	_____
Social Science Elective	_____	_____

#### IAI Social and Behavioral Sciences Electives:

Anthropology: ANT 111, 202, 216, 240  
Economics: ECO 201, 202  
Geography: GEO 112  
History: HIS 103, 104, 201, 202  
Political Science: PSC 131, 211, 212, 213, 289  
Psychology: PSY 132, 200, 203, 262  
Sociology: SOC 133, 221, 263, 264

### IAI PHYSICAL/LIFE SCIENCES (2 COURSES) 7-8 HOURS

One course must be at least 4 credit hours and include a lab component.

	Sem.	Grade
SCI 210A or Physical Science Elective	_____	_____
SCI 210B or Life Science Elective	_____	_____

#### IAI Life Science Electives:

Biology: BIO 100, 101, 105, 225  
Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B  
Life Science: SCI 215

#### IAI Physical Science Electives:

Chemistry: CHM 141, 151  
Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B  
Physical Science: PHS 102, 103, 105, 107  
Physics: PHY 121, 155, 205

## MAJOR AND GENERAL ELECTIVE REQUIREMENTS (IAI GECC and major/elective credits must total a minimum of 62 hours, of which 24-25 must be general elective credits.)

Consult with the transfer institution to determine if certain courses require a grade of "C" or higher, or if there is a minimum grade point average for admission to your declared major. Please select courses on this guide in accordance with the Articulation Notes for your transfer institution.

	Sem.	Grade
ORI 100 (1)	_____	_____
MAT 208 (3)	_____	_____
CIS 207 or Elective (3)	_____	_____
HTH 110 or Elective (2)	_____	_____
EDC 202 or Elective (3)	_____	_____
EDC 203 or Elective (3)	_____	_____
EDC 208 or Elective (3)	_____	_____
Elective	_____	_____
Elective	_____	_____
*Non-Western Civilization/Culture Course (3)	_____	_____

\*Select one of the following as GECC credit: ANT 202, 216, GEO 112, HIS 103, 104, 213, PHL 200, 260, or PSC 213

**ARTICULATION NOTES:** Consult the transfer institution for specific requirements.

**TEACHER EDUCATION PROGRAM:** To be considered for admission into a formal Teacher Education Program: Must meet the minimum grade point average required for consideration into the major and/or Professional Education Program. This grade point average is typically at 2.5 but may be higher depending on the institution and program option selected. SIUC requires a minimum grade point average of 2.75. In addition, a minimum grade of "C" or higher may be required in selected courses within the degree program. Must have an official score report showing a qualifying score on the TAP, ACT plus Writing or SAT when submitting an application for consideration for admission into a formal Teacher Education Program. Helpful tips for applying to a Teacher Education Program may be found [here](#):

**SIUC TRANSFER INFORMATION:** Take PSY 132, MAT 208, MAT 209, CIS 207, EDC 203, EDC 202 and EDC 208 or PSY 265. To satisfy a non-western civilization/third world culture course requirement, select from ANT 111, 216, GEO 112, HIS 103, 104, 213. PHL 200 or 260.

**SIUE TRANSFER INFORMATION:** Take PSY 132, HIS 201, 202, PSC 131, SCI 210A, 210B, MAT 208, 209, PSY 265 and EDC 203. Course recommendations include HTH 110, MUS 105 or ART 111, PHL 121, HIS 103 or 104.

**EIU TRANSFER INFORMATION:** Take PSC 131-3, CPS 111-3, EDC 200/202, MAT 208, MAT 209 and EDC 203. To satisfy a non-western Civilization/Third World Culture course requirement, select from ANT 111, 216, GEO 112, HIS 103, 104, 213, PHL 200, 260, PSC 212 or 213. One year or two course sequence of a foreign language is required. Students are exempt with two full years of a single language with grades of C or better in high school. If you are seeking dual certification with Elementary Education or Early Childhood Education, MAT 108 is required as well as MAT 120 or MAT 282, BIO 100 or BIO 101, PHY 155, CHM 151 and PHS 103 or PHS 220.

**ISU TRANSFER INFORMATION:** Take EDC 208 or PSY 265, EDC 202 or PSY 262 to satisfy select core courses required for all sequences (Deaf and Hard of Hearing, Learning and Behavior, Low Vision and Blindness) A Global Studies course is required as a general graduation requirement. Select from: ANT 111, 216, GEO 112, HIS 103, 104, HUM 120, PHL 200, 260, PSC 120, or PSC 212. All B.S degree programs require successful completion of a SMT course. Select from: BIO 226, 240, 275, CHM 142, 152, 201, PHS 107, MAT 117, 201, 202, 125, 221, BUS 121, PHY 156 or 206.





John A. Logan College

# Associate in Arts Degree in Speech Communication

Transfer Curriculum 000AA0086  
Associate in Arts: 63 Hrs. Min.  
Major Code: 1.1090101  
Effective Date: Fall 2019

## GENERAL EDUCATION (IAI GECC, 37-38 CREDITS)

The Illinois Articulation Initiative (IAI) General Education Core Curriculum (GECC) requires 12 to 13 courses from the following five areas. Courses selected to meet IAI GECC requirements may also meet course requirements for a specific major.

### IAI COMMUNICATIONS (3 COURSES)

	Sem.	Grade
ENG 101 or ENG 113 (C grade or higher)	_____	_____
ENG 102 (C grade or higher)	_____	_____
COM 115 Speech	_____	_____

### IAI HUMANITIES AND FINE ARTS (3 COURSES)

At least one course must be an IAI Fine Arts elective and one course must be an IAI Humanities elective.

	Sem.	Grade
Fine Arts Elective	_____	_____
Humanities Elective	_____	_____
Humanities or Fine Arts Elective	_____	_____

#### IAI Fine Arts Electives:

Art: ART 111, 220, 221, 291  
Literature: LIT 275  
Music: MUS 105, 225  
Theater: THE 113

#### IAI Humanities Electives:

Foreign Language: FRE 202, GER 202, SPN 202  
History: HIS 101, 102, 213  
Literature: LIT 211, 212, 231, 232, 235, 264, 280, 281, 284, 295  
Philosophy: PHL 111, 121, 131, 200, 260

### IAI MATHEMATICS (1 COURSE)

	Sem.	Grade
Math Elective	_____	_____

#### IAI Mathematics Electives:

MAT 112, MAT 113, MAT 116, MAT 117, MAT 119, MAT 120, MAT 125/CPS 202, MAT 131, MAT 201, MAT 202, MAT 282

### IAI SOCIAL AND BEHAVIORAL SCIENCES (3 COURSES)

At least two different disciplines (course prefixes) must be represented.

	Sem.	Grade
Social Science Elective	_____	_____
Social Science Elective	_____	_____
Social Science Elective	_____	_____

#### IAI Social and Behavioral Sciences Electives:

Anthropology: ANT 111, 202, 216, 240  
Economics: ECO 201, 202  
Geography: GEO 112  
History: HIS 103, 104, 201, 202  
Political Science: PSC 131, 211, 212, 213, 289  
Psychology: PSY 132, 200, 203, 262  
Sociology: SOC 133, 221, 263, 264

### IAI PHYSICAL/LIFE SCIENCES (2 COURSES)

One course must be at least 4 credit hours and include a lab component.

	Sem.	Grade
Life Science Elective	_____	_____
Physical Science Elective	_____	_____

#### IAI Life Science Electives:

Biology: BIO 100, 101, 105, 225  
Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B  
Physical Geography: GEO 215

#### IAI Physical Science Electives:

Chemistry: CHM 141, 151  
Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B  
Physical Science: PHS 102, 103, 105, 107  
Physics: PHY 121, 155, 205

## MAJOR AND GENERAL ELECTIVE REQUIREMENTS (IAI GECC and major/elective credits must total a minimum of 62 hours, of which 24-25 must be general elective credits.)

Consult with the transfer institution to determine if certain courses require a grade of "C" or higher, or if there is a minimum grade point average for admission to your declared major. Please select courses on this guide in accordance with the Articulation Notes for your transfer institution.

	Sem.	Grade
ORI 100 (1)	_____	_____
COM 116	_____	_____
Foreign Language I or Elective	_____	_____
Foreign Language II or Elective	_____	_____
Elective	_____	_____
Elective	_____	_____
Elective	_____	_____
Elective	_____	_____
Elective	_____	_____
Elective	_____	_____

**ARTICULATION NOTES:** Consult the transfer institution for specific requirements.

**SIUC TRANSFER INFORMATION:** COM115 and 116 are required. Students should select two courses from ANT 111, ANT 216, ART 220, ART 221, ART 223, ECO 150I, GEO 112, GEO 215, HIS 101, HIS 102, HIS 103, HIS 104, HIS 112, HIS 213, PHL 200, PSC 212, PSC 289, and/or SOC 263 to satisfy the International Coursework requirement in the College of Liberal Arts. The College of Liberal Arts also requires two semesters of the same foreign language. IPP 141 and 142 may be used to satisfy the language requirement.

**SIUE TRANSFER INFORMATION:** COM 115 and 116 are required. Students pursuing the B.A. degree are required to take two semesters of the same foreign language.

**EIU TRANSFER INFORMATION:** COM 115 and 116 are required. Foreign language is not required.

**ISU TRANSFER INFORMATION:** COM 115 and 116 are required. Students pursuing a B.A. degree must complete three semesters of the same foreign language. The B.S. Degree requires two semesters of the same language (three years of the same language in high school with a grade of "C" or higher will satisfy this requirement). IPP 141 and 142 may be used for the language requirement. Students should select one course from ANT 111, ANT 216, GEO 112, HIS 103, HIS 104, HUM 120, PHL 200, PHL 260, PSC 120, or PSC 212 to satisfy the Global Studies requirement for all majors.



John A. Logan College

# Associate in Arts Degree Pre-BSN

Transfer Curriculum 000AA0086  
Associate in Arts: 62 Hrs. Min.  
Major Code: I.1 511105  
Effective Date: Fall 2019

## GENERAL EDUCATION (IAI GECC, 37-38 CREDITS)

The Illinois Articulation Initiative (IAI) General Education Core Curriculum (GECC) requires 12 to 13 courses from the following five areas. Courses selected to meet IAI GECC requirements may also meet course requirements for a specific major.

### IAI COMMUNICATIONS (3 COURSES)

	Sem.	Grade
ENG 101 or ENG 113 (C grade or higher)	_____	_____
ENG 102 (C grade or higher)	_____	_____
COM 115 Speech	_____	_____

### IAI HUMANITIES AND FINE ARTS (3 COURSES)

At least one course must be an IAI Fine Arts elective and one course must be an IAI Humanities elective.

	Sem.	Grade
Fine Arts Elective	_____	_____
PHL 111 Ethics and Moral Problems	_____	_____
PH 121 or Humanities or Fine Arts Elective <sup>1</sup>	_____	_____

#### IAI Fine Arts Electives:

Art: ART 111, 220, 221, 291  
Literature: LIT 275  
Music: MUS 105, 225  
Theater: THE 113

#### IAI Humanities Electives:

Foreign Language: FRE 202, GER 202, SPN 202  
History: HIS 101, 102, 213  
Literature: LIT 210, 230, 235, 264, 280, 281, 284, 295  
Philosophy: PHL 111, 121, 131, 200, 260

### IAI MATHEMATICS (1 COURSE)

	Sem.	Grade
MAT 119 or MAT 120 Elementary Statistics	_____	_____

### IAI SOCIAL AND BEHAVIORAL SCIENCES (3 COURSES)

At least two different disciplines (course prefixes) must be represented.

	Sem.	Grade
PSY 132	_____	_____
SOC 133 or SOC 221	_____	_____
Social Science Elective	_____	_____

#### IAI Social and Behavioral Sciences Electives:

Anthropology: ANT 111, 202, 216, 240  
Economics: ECO 201, 202  
Geography: GEO 112  
History: HIS 103, 104, 201, 202  
Political Science: PSC 131, 211, 212, 213, 289  
Psychology: PSY 132, 200, 203, 262  
Sociology: SOC 133, 215, 263, 264

### IAI PHYSICAL/LIFE SCIENCES (2 COURSES)

One course must be at least 4 credit hours and include a lab component.

	Sem.	Grade
BIO 105 or Life Science Elective <sup>1</sup>	_____	_____
CHM 141 (4)	_____	_____

#### IAI Life Science Electives:

Biology: BIO 100, 101, 105, 225  
Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B  
Life Science: SCI 215

## MAJOR AND GENERAL ELECTIVE REQUIREMENTS (IAI GECC and major/elective credits must total a minimum of 62 hours, of which 24-25 must be general elective credits.)

Consult with the transfer institution to determine if certain courses require a grade of "C" or higher, or if there is a minimum grade point average for admission to your declared major. Please select courses on this guide in accordance with the Articulation Notes for your transfer institution.

	Sem.	Grade
ORI 100 (1)	_____	_____
BIO 205 Anatomy & Physiology I (4)	_____	_____
BIO 206 Anatomy & Physiology II(4)	_____	_____
BIO 226 Microbiology (4)	_____	_____
CHM 142 General, Organic & Biochemistry II or Elective <sup>1</sup> (4)	_____	_____
PNE 100 Nutrition or Elective <sup>1</sup> (3)	_____	_____
MAT 108 College Algebra or MAT 112 or MAT 113 Contemporary Math or Elective <sup>1</sup> (3)	_____	_____
Elective <sup>1</sup> (3)	_____	_____

<sup>1</sup>Consult the transferring institution for specific general elective requirements.

Students should verify what general elective courses their transfer university will require.

#### SIUE Information

Take ENG 101 (ENG 101), 102 (ENG 102), SPE 115 (ACS 101). Note, effective with fall 2019 term, SPE 116 (ACS103) is no longer an acceptable substitute for SPE 115. Take BIO 105 (BIOL 140), BIO 205 (BIOL 240A), BIO 206 (BIOL 240B), BIO 226 (BIOL 250). Note: If you take BIO 205 (BIOL 240A), this course will substitute for BIO 105 (BIOL 140) and will meet the pre-requisite for both BIOL 240A and 250 at SIUE. Take CHM 141 (CHEM 120 and 124A), CHM 142 (CHEM 120B and 124B). Take MAT 113 (QR 101) or MAT 131 (MATH 150), PHL 121 (RA101) and PHL 111 (PHIL 320) and MAT 120 (STAT 107). Take one of the following to satisfy the Experience Global Cultures (EGC) course requirement: ART 220,221, ANT 111, 216, 240, HIS 101, 102, 103, 104, 112, HUM 120, LIT 210, 236, 280, 281, PHL 200, 260, PSC 120, 212 or 289.

#### Illinois State University:

This program is offered in ISU's Mennonite College of Nursing. Complete the Associate degree prior to enrollment. Take CHM 141 or 151 (CHE 140), MAT 282 (MQM 100 or ECO 138) or BUS 121 (MQM 100), PSY 132 (PSY 110), BIO 226 (BSC 160), BIO 205 (BSC 181), BIO 206 (BSC 182) and HIT 217 (HSC 105). Satisfy the AMALI graduation requirement by taking one of the following courses: ANT 111, 216, GEO 112, HIS 213, HUM 120, or PHL 200 or 260. Explore using one of these courses to meet an IAI Humanities or IAI Social and Behavioral Sciences course requirement.

#### University of Chicago:

Take ENG 101 (ENGL 160), ENG 102 (ENGL 161). Take BIO 101 (BIOS 100) as a pre-requisite to BIOS 350. Take CHM 151 (CHEM 122/123), CHM 141 (CHEM 130), BIO 205 (KN 251), BIO 206 (KN 252) and MAT 120 or 282 (STAT 101).

#### Eastern Illinois University:

Offers Nursing option in cooperation with Lakeview College of Nursing. Upon successful completion of all required courses, the degree is awarded by Lakeview College of Nursing.

Complete the A.A. degree prior to transfer. Include ENG 101 (ENG 1001G), ENG 102 (ENG 1002G), SPE 115 (CMN 1310G), MAT 120 or 282 (MAT 2250G), PSY 132 (PSY 1879), CHM 151 (CHM 1310G/1315G), CHM 152 (CHM 1410G/1415G), SOC 133 (SOC 1838G), PNE 100 (FCS 2100), BIO 101 (BIO 1001G), BIO 205 (BIO 2210) and BIO 206 (BIO 2220)

--NOTE: Students entering with an A.A. degree should consider application directly to Lakeview College of Nursing. In addition, Lakeview recommends completing BIO 226 and HIT 217 at JALC. In addition, Lakeview will accept our CJHM 151/152 or CHM 141/142 sequence. And EDC 202 will satisfy the required prerequisite for a Life Span Development course. Also, verification of current certification in CPR is a prerequisite in all clinical courses. The American Heart Association—Basic Life Support (CPR and AED Program) “or” The American Red Cross—Basic Life Support for Health Care Providers are the only two acceptable courses.

**Western Illinois University:**

Transfer students may initially be admitted into the Pre-Nursing program and required to complete all criteria for admission to the Nursing major. All General Education and Nursing support courses must be satisfactorily completed by August 1<sup>st</sup> for fall semester admission.

Within the A.A degree program, include BIO 226 (MICR 200), BIO 205 and 206 (ZOOL 330 and 331), PSY 132 (PSY 100).SOC 133 (SOC 100), PHL 111 (PHIL 120), CHM 141 and 142 (CHEM 101 and 102), MAT 282 or 120 (STAT 171), ENG 101 or 113 (ENG 180), ENG 102 (ENG 280) and SPE 115 (COMM 241).

**FYI**

You can also find the BSN degree offered at MURRAY STATE UNIVERSITY in the School of Nursing, at SOUTHEAST MISSOURI STATE UNIVERSITY as a Bachelor of Science in Nursing under the College of Education, Health and Human Studies and at the UNIVERSITY OF SOUTHERN INDIANA as a Bachelor of Science in Nursing under the College of Nursing and Health Professions.



John A. Logan College

# Associate in Applied Science in Accounting

Career Curriculum 00ACC0001  
Minimum Hours: 61-62  
Major Code: 1.2 520301  
Effective Date: Fall 2021

## FIRST YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
ORI	100	College 101	1	_____
ACC	200	Financial Accounting I	3	_____
CIS	207	Computer Applications for Business	3	_____
ENG	101	English Composition I <sup>1</sup>	3	_____
MAT	113	or MAT 112 Introduction to Contemporary Mathematics OR MAT 108 College Algebra <sup>2</sup>	3-4	_____
IAI		Humanities/Fine Arts Elective OR IAI Physical/Life Science Elective	3 16-17	_____

## NOTES AND INFORMATION

<u>Fall Only Courses:</u>		<u>Spring Only Courses:</u>	
ACC	218	ACC	105    CIS    105
		ACC	225
		CIS	220
		MGT	112

<sup>1</sup>Requires a grade of "C" or higher.

The minimum general education component for the Associate in Applied Science degree requires satisfactory completion of at least 15 semester credits of coursework distributed over the disciplines of Communications, Mathematics, Arts and Humanities, Physical and Life Sciences, and Social and Behavioral Sciences. The curriculum guide for each Associate in Applied Science degree program will spell out the course requirements or options available for satisfying the general education component. With appropriate justification and in consultation with your academic advisor, a request to substitute a course for one recommended in this guide may be granted with the appropriate approvals from the Department Chair, Dean of Academic Affairs and Vice-President for Instruction. However, no substitutions are allowed in Groups I-III (General Education Component; GECC) of the curriculum guide (see the Associate in Applied Science general degree requirements worksheet in the John A. Logan College Catalog).

## FIRST YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
ACC	105	Payroll Accounting	3	_____
ACC	201	Financial Accounting II	3	_____
BUS	111	Business Mathematics	3	_____
CIS	105	Current Operating Systems/Security	3	_____
PSC	131	American Government	3	_____
			15	

## SECOND YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
ACC	202	Managerial Accounting	3	_____
ACC	218	Tax Accounting	3	_____
CIS	104	Spreadsheet Design	3	_____
ECO	201	Introduction to Macroeconomics OR ECO 202 Introduction to Microeconomics	3	_____
COM	115	Speech OR COM 116 Interpersonal Communication	3 15	_____

**This AAS program is not designed to transfer. Students planning to pursue a baccalaureate degree should enroll in the Associate in Arts-Business degree program.**

**Additional Information:** This is a two-year accounting program designed to meet the needs of modern business and industry. Courses in the curriculum are aimed at developing habits of critical and logical thinking, as well as the ability to analyze, record, and interpret accounting data. Completion of the program leads to the Associate in Applied Science degree.

**Career Opportunities:** bookkeeper, professional tax preparer, accounting assistant, accounting clerk.

## SECOND YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
ACC	225	Integrated Accounting on Computers	3	_____
BUS	222	Legal and Social Environment of Business	3	_____
BUS	235	Business Communication	3	_____
CIS	220	Advanced Spreadsheet Design	3	_____
MGT	112	Principles of Management	3	_____
			15	

*John A. Logan College reserves the right to modify this curriculum guide as needed. Please verify with your academic advisor the accuracy and time lines of this document.*



John A. Logan College

# Associate in Applied Science

Toward a Degree in

## Administrative Assistant

Career Curriculum: 00BUS0009  
 Minimum Hours: 64-66  
 Major Code: 1.2 520402  
 Effective Date: Fall 2022

### FIRST YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
ORI	100	College 101	1	_____
BUS	116	Keyboarding I <sup>1</sup>	3	_____
BUS	135	Office Language Skills	3	_____
HIT	217	Medical Terminology	3	_____
BUS	255	Customer Service	3	_____
CIS	207	Computer Applications for Business	3	_____
			<u>16</u>	

### FIRST YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
BUS	117	Keyboarding II	3	_____
ENG	101	English Composition I <sup>3</sup>	3	_____
BUS	222	Legal/Social Environment of Business	3	_____
CIS	105	Current Operating Systems/Security	3	_____
MAT	113	OR MAT 112 Introduction to Contemporary Mathematics <sup>2</sup> OR BUS 111 Business Mathematics <sup>2</sup>	15	_____

### SECOND YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
CIS	104	Spreadsheet Design	3	_____
CIS	110	Introduction to Word Processing	2	_____
BUS	235	Business Communication	3	_____
ECO	201	Introduction to Macroeconomics OR ECO 202 Introduction to Microeconomics	3	_____
<b>Track 1 or Track 2 electives</b>			<u>6</u>	
			17	

### SECOND YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
ACC	100	Business Accounting OR ACC 200 Financial Accounting I	3	_____
CIS	120	Database Management	3	_____
COM	115	Speech <sup>2</sup> OR COM 116 Interpersonal Communication <sup>2</sup>	3	_____
IAI Humanities OR IAI Fine Arts Elective <sup>4</sup>			3	_____
<b>Track 1 or Track 2 electives</b>			<u>4-6</u>	
			16-18	

### NOTES AND INFORMATION

Fall Only Courses:	Spring Only Courses:
BUS 255	BUS 270    CIS 105
HIT 206	BUS 280    MGT 112
BUS 282	BUS 237    CIS 120

<sup>1</sup> Proficiency exams are available for BUS 116 (requiring a production test as well as 40 wpm with no more than three errors on a three-minute straight-copy timing) and BUS 117 (requiring 55 wpm with no more than three errors on a three-minute straight-copy timing) for students entering the program with a sound background in keyboarding. See your advisor or the chairperson of the Business Department for information.

<sup>2</sup> Students pursuing the Health Care Management Capstone Option at SIUC or a baccalaureate degree at another institution should take MAT 113 and COM 115.

<sup>3</sup> Requires a grade of "C" or higher.

<sup>4</sup> Preferred IAI Humanities and Fine Arts electives: LIT 235, LIT 280, PHL 121, THE 113

#### Medical Office Administrative Assistant Required Electives-Track One

BUS 270	Medical Office Procedures	3	_____
ALH 101	Cardiopulmonary Resuscitation	1	_____
HIT 206	Medical Insurance & Billing Procedures	3	_____
BUS 280	Computer Applications for the Medical Office	3	_____

#### General Administrative Assistant Required Electives-Track Two

BUS 110	Introduction to Business	3	_____
BUS 237	Office Procedures	3	_____
BUS 282	Legal Terminology	3	_____
MGT 112	Principles of Management	3	_____

Students planning to transfer and pursue a baccalaureate degree should, when given a choice, enroll in the general education course that is IAI GECC approved and articulated with participating Illinois institutions.

**Additional Information:** This is a two-year program leading to an Associate in Applied Science degree.

#### Career Opportunities:

*John A. Logan College reserves the right to modify this curriculum guide as needed. Please verify with your academic advisor the accuracy and time lines of this document.*



John A. Logan College

# Associate in Applied Science Associate Degree Nursing (ADN)\*

Career Curriculum ADN15  
Minimum Hours: 63-63.5  
Major Code: 1.2 513801  
Effective Date: Spring 2021

## FIRST YEAR – SUMMER SEMESTER

Dept.	No.		Hrs.	Grade
ORI	212	ADN Orientation	.5	_____
ALH	101	Cardiopulmonary Resuscitation OR ALH 102 CPR Recertification <sup>1</sup>	.5-1	_____
CHM	141	General, Organic, and Biochemistry I*	<u>4</u> 5-5.5	_____

## FIRST YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
ADN	201	Health Assessment and Nursing Care	4	_____
ADN	202	Nursing Care of Adult I	7	_____
ADN	213	Nursing Today & Tomorrow	2	_____
ADN	218	Mental Health Issues in Nursing	3	_____
ADN	230	Advanced Pharmacology I	<u>1.5</u> 17.5	_____

## FIRST YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
ADN	220	Nursing Care of Adult II	7	_____
ADN	221	Family Nursing	5	_____
ADN	231	Advanced Pharmacology II	1.5	_____
BIO	226	Microbiology*	<u>4</u> 17.5	_____

## NOTES AND INFORMATION

\*\* Students must complete either CHM 141 or BIO 226 **PRIOR** to starting the First-Year-Fall Semester on this guide. Students must maintain “C” or higher in all courses. All students must complete the practical nursing curriculum. All PN courses must be completed with a “C” or better prior to beginning ADN courses. It is strongly recommended that all ADN general education courses are completed prior to beginning the ADN program. Active and unencumbered Illinois LPN license is required prior to entering the first year, fall semester classes. The following courses are included in the minimum hours of this degree:

Course	Credit Hours
BIO 205 Human Anatomy and Physiology I	4
BIO 206 Human Anatomy and Physiology II	4
PNE 101 Fundamentals of Nursing	3
PNE 105 Nursing Throughout the Life Cycle	1
PNE 161 Pharmacology in Nursing	2
PNE 171 Pharmacology in Nursing II	2
PNE 204 Adult Nursing I	2
PNE 206 Adult Nursing II	2
PNE 209 I.V. Therapy (or comparable I.V. course)	.5
PNE 207 Medical/Surgical Clinic	3
PNE 208 Mental Health Nursing	<u>1.0</u>
<b>TOTAL CREDIT HOURS</b>	<b>24.5</b>

ATI scores at Level 2 are required before a course grade will be issued. ATI National Average Score must be obtained on RN Predictor prior to exiting the program. (2 attempts maximum)

A national licensure examination test must be passed in order to be employed in this career.

<sup>1</sup> Students must be certified in CPR annually (ALH 101) before starting Clinical Rotations.

\*\*Students interested in BSN should consider taking MAT 120 Elementary Statistics.

The minimum general education component for the Associate in Applied Science degree requires satisfactory completion of at least 15 semester credits of coursework distributed over the disciplines of Communications, Mathematics, Arts and Humanities, Physical and Life Sciences, and Social and Behavioral Sciences. The curriculum guide for each Associate in Applied Science degree program will spell out the course requirements or options available for satisfying the general education component. With appropriate justification and in consultation with your academic advisor, a request to substitute a course for one recommended in this guide may be granted with the appropriate approvals from the Department Chair or Director of Nursing, Dean for Academic Affairs and Vice-President for Instructional Services. However, no substitutions are allowed in Groups I-III (General Education Component; GECC) of the curriculum guide (see the Associate in Applied Science general degree requirements worksheet in the John A. Logan College Catalog).

Students planning to transfer and pursue a baccalaureate degree should, when given a choice, enroll in the general education course that is IAI GECC approved and articulated with participating Illinois institutions.

**Additional Information:** The Associate Degree Nursing Program provides practical nurses the opportunity to achieve an associate degree in nursing and take the NCLEX-RN Exam; builds on the practical nurse program of education in communication skills, nursing process, anatomy, physiology, pathophysiology, pharmacology, and basic nursing skills; provides appropriate educational



opportunities to prepare the graduate to adhere to standards and scope of practice as set forth in the Illinois Nursing Act of 2017 and American Nursing Association; and creates an environment that encourages lifelong learning and professional development.

This unique program is designed to prepare the student for the practice of professional nursing as defined in the Illinois Nurse Practice Act of 2017 and meets the requirements for schools approved for associate degree nursing by the Illinois Department of Financial Professional Regulation (IDFPR).

The applicant should contact the Testing Services Office at the College. The Associate Degree Nursing Program entry packet can be located at the following link [www.jalc.edu/admissions/restricted-allied-health-admission](http://www.jalc.edu/admissions/restricted-allied-health-admission). The steps to be followed are specified in the packet.

In addition to completing a College application, the applicant must be able to do the following:

- provide proof of successful completion of an approved school of practical nursing
- successfully complete the associate degree nursing pre-entrance examination and the ASSET Test
- must possess an unencumbered active Illinois LPN license

The selection procedures are listed in the admissions packet.

The ADN program goals follow the American Nurses Association Scope & Standards of Practice (Third Edition) for a Registered Professional Nurse.

The goals of the ADN program are to prepare entry level Rn's:

1. To collect pertinent data in a systematic, ongoing assessment process with compassion and respect for the individuals' dignity, worth, and unique attributes.
2. To analyze assessment data to determine actual or potential diagnoses, problems and issues.
3. To identify expected outcomes for an individualized plan.
4. To develop or review a plan to help an individual attain expected, measurable outcomes.
5. To implement the identified plan.
6. To coordinate care delivery.
7. To employ strategies to promote health and a safe environment.
8. To practice ethically.
9. To practice in a manner that is congruent with cultural diversity and inclusion principles.
10. To communicate effectively.
11. To collaborate with peers, faculty and healthcare team.
12. To lead within the professional practice setting and the profession.
13. To seek knowledge and competence that reflects nursing practice.
14. To integrate evidence-based practice and research.
15. To contribute to qualify nursing practice.
16. To evaluate one's own professional practice, as well as, others' nursing practice.
17. To utilize appropriate resources to plan, provide, and sustain evidence-based nursing services that are safe, effective, and fiscally responsible.

Upon satisfactory completion of the program, the student will be eligible to take the National Council Licensure Examination for Registered Nurses (NCLEX-RN).

**Career Opportunities:** Specializations include obstetrics, surgery, intensive care unit, medical/surgical, emergency room, pediatrics, dialysis, case management, public health, insurance, office nursing and administration, home health.

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John A. Logan College

# Associate in Applied Science

Toward a Degree in

## Adult Cardiac Diagnostic Medical Sonography\*

Career Curriculum 00DMS0017

Minimum Hours: 72

Major Code: 1.2 510910

Effective Date: Summer 2023

### FALL SEMESTER

Dept.	No.		Hrs.	Grade
ORI	100	College 101	1	_____
ALH	110	Issues in Health and Patient Care	3	_____
ENG	101	English Composition	3	_____
Any IAI Math		OR MAT 108 College Algebra <sup>3</sup>	<u>3-4</u>	_____
			10-11	

### SPRING SEMESTER

Dept.	No.		Hrs.	Grade
ALH	112	Pathophysiology and Terminology <sup>1</sup>	3	_____
PHY	121	Technical Physics OR PHS 105 Physics for Non-Science Majors	3	_____
SOC	133	Principles of Sociology OR PSY 132 General Psychology	3	_____
COM	115	Speech OR COM 116 Interpersonal Communications	<u>3</u> 12	_____

**All of the above coursework must be completed before starting any  
Diagnostic Cardiac Sonography Specialization.**

### FIRST YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
DMS	104	Diagnostic Ultrasound Foundations <sup>2</sup>	3	_____
DMS	202	Cardiac Anatomy and Physiology <sup>2</sup>	4	_____
DMS	204	Cardiac Ultrasound Imaging/Lab I <sup>2</sup>	6	_____
DMS	206	Cardiac Ultrasound Clinic I <sup>2</sup>	<u>3</u>	_____
			16	

### FIRST YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
DMS	200	Medical Physics and Instrumentation	5	_____
DMS	224	Cardiac Ultrasound Imaging/Lab II	6	_____
DMS	226	Cardiac Ultrasound Clinic II	<u>6</u>	_____
			17	

### FIRST YEAR – SUMMER SEMESTER

Dept.	No.		Hrs.	Grade
DMS	236	Cardiac Ultrasound Clinic III	<u>5</u>	_____
			5	

### SECOND YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
DMS	230	Cardiac Seminar	2	_____
DMS	246	Cardiac Ultrasound Clinic IV	<u>10</u>	_____
			12	

### NOTES AND INFORMATION

\*Students must maintain a grade of "C" or higher in all courses.

\*Students must be certified for CPR at the start of the program and remain certified throughout the program.

<sup>1</sup> BIO 206 is a prerequisite or concurrent enrollment to ALH 112 recommend for Fall Semester. No prior credit will be given for BIO 206 Human Anatomy and Physiology II if this course was completed more than 5 years prior to program admittance or if the earned grade was lower than a "C." If a student elects to complete BIO 206 prior to beginning the program, it will fulfill the UCC Life Science Group II course requirement for the SIU-C articulation agreement.

<sup>2</sup> Students not meeting the minimum course requirements for DMS 104, DMS 200, DMS 202, DMS 204, DMS 206, DMS 224, and DMS 226 are required to enroll in 6DMS 230, Skill Enhancement, and 6DMS 232, Skill Enhancement. These courses are not required for graduation from this program and therefore are ineligible for Title IV Financial Aid funding.

<sup>3</sup> Students interested in pursuing Radiologic Sciences (Medical Sonography) at SIU should consider MAT 120, articulated substitute for HCM 365.

The minimum general education component for the Associate in Applied Science degree requires satisfactory completion of at least 15 semester credits of coursework distributed over the disciplines of Communications, Mathematics, Arts and Humanities, Physical and Life Sciences, and Social and Behavioral Sciences. The curriculum guide for each Associate in Applied Science degree program will spell out the course requirements or options available for satisfying the general education component. With appropriate justification and in consultation with your academic advisor, a request to substitute a course for one recommended in this guide may be granted with the appropriate approvals from the Department Chair, Dean for Instruction and Vice-President for Instruction. However, no substitutions are allowed in Groups I-III (General Education Component; GECC) of the curriculum guide (see the Associate in Applied Science general degree requirements worksheet in the John A. Logan College Catalog).

Students planning to transfer and pursue a baccalaureate degree should, when given a choice, enroll in the general education course that is IAI GECC approved and articulated with participating Illinois institutions.

**Career Opportunities:** Sonographers can choose to work in clinics, hospitals, private practice physician offices, public health facilities, laboratories, and other medical settings performing examinations in their areas of specialization. Career advancement opportunities exist in education, administration, research, and in commercial companies as education/application specialists, sales representatives, and technical advisors.

**The John A. Logan Adult Cardiac Diagnostic Medical Sonography Program is accredited by the Commission on Accreditation of Allied Health Education Programs ([www.caahep.org](http://www.caahep.org)) upon recommendation of the joint review committee on Education in Diagnostic Medical Sonography.**

#### CAAHEP

9355 – 113<sup>th</sup> St. N., #7709  
Seminole, FL 33775

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John A. Logan College

# Associate in Applied Science Toward a Degree in Agribusiness Management

Career Curriculum: AGR2021  
Minimum Hours: 60  
Major Code: 1.2 010101  
Effective Date: Fall 2021

## FIRST YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
ORI	100	College 101	1	_____
ENG	101	English Composition I <sup>1</sup> OR ENG 113 Professional Technical Writing	3	_____
MAT	113	OR MAT 112 Introduction to Contemporary Mathematics OR MAT 100	3	_____
AGR	101	Agricultural Economics	3	_____
AGR	112	Computers in Ag.	3	_____
AGR	161	Agribusiness Applications	2	_____
			15	

## NOTES AND INFORMATION

Electives:

Possible AGR Electives - AGR 103, AGR 111, AGR 122

Possible JALC Electives - IDM 210, SRV 101, ELT 102, BUS 110, MGT 228, MKT 113, MKT 224, WEL 121, WEL 122

<sup>1</sup>Requires a grade of "C" or higher.

Students planning to transfer and pursue a baccalaureate degree should, when given a choice, enroll in the general education course that is IAI GECC approved and articulated with participating Illinois institutions.

## FIRST YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
AGR	102	Intro to Crops	4	_____
AGR	141	Agricultural Sales	3	_____
		IAI Soc./Behavioral Sci. Elect.	3	_____
		JALC CTE or Business Elective	3	_____
		IAI AGR Elective	3	_____
			16	

**Additional Information:** This is a two-year program leading to an Associate in Applied Science degree.

**Career Opportunities:** Agricultural Sales Managers and Sales Representatives, Farm and Ranch Managers and Natural Resource Managers

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## SECOND YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
COM	115	Speech	3	_____
AGR	181	Precision Agriculture	3	_____
AGR	104	Intro to Soils	3	_____
		JALC CTE or Business Elective	3	_____
		IAI Phys/Life Sci. Elective OR IAI Fine Arts/Hum. Elective	3	_____
			15	

## SECOND YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
		JALC CTE or Bus. Elective	3	_____
AGR	121	Intro to Animal Science	4	_____
		IAI AGR Elective	3	_____
AGR	151	Intro to Ag. Business Management	4	_____
			14	



John A. Logan College

# Associate in Applied Science ASL/Deaf Studies

Career Curriculum IPP 2009  
Minimum Hours: 66  
Major Code: 1.2 161603  
Effective Date: Fall 2020

## FIRST YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
ORI	100	College 101	1	_____
ENG	101	English Composition I <sup>3</sup>	3	_____
IPP	111	Non-Verbal Language	3	_____
ASL	141	American Sign Language (ASL I) <sup>1,2</sup>	4	_____
MAT	113	or MAT 112 Introduction to Contemporary Mathematics*OR BUS 111 Business Mathematics	3	_____
ANT	216	Cultural Anthropology or SOC 221 Race and Ethnicity	<u>3</u>	_____
			17	

## FIRST YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
BIO	100	Biology for Non-Science Majors	4	_____
ASL	142	American Sign Language (ASL II) <sup>1,2</sup>	4	_____
IPP	144	ASL Classifiers <sup>4</sup>	3	_____
IPP	151	Deaf Studies/Culture	3	_____
IPP	240	Fingerspelling and Numbers I <sup>1</sup>	<u>3</u>	_____
			17	

## SECOND YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
ASL	143	American Sign Language (ASL III) <sup>1</sup>	5	_____
IPP	211	ASL Linguistics I	3	_____
IPP	278	ASL Vocabulary Building I	3	_____
COM	115	Speech OR COM 116 Interpersonal Communication	3	_____
PSY	132	General Psychology	<u>3</u>	_____
			17	

## SECOND YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
IPP	212	ASL Linguistics II	3	_____
ASL	244	ASL IV-Survey of ASL Literature <sup>1</sup>	5	_____
IPP	279	ASL Vocabulary Building II	3	_____
IPP	201	Introduction to Interpreting OR Elective	<u>4</u>	_____
			15	

## NOTES AND INFORMATION

\*Or any higher math course.

<sup>1</sup> A grade of "C" or higher is required in:

- ASL 141 American Sign Language (ASL I)
- ASL 142 American Sign Language (ASL II)
- ASL 143 American Sign Language (ASL III)
- ASL 244 ASL IV-Survey of ASL Literature

<sup>2</sup> Competency in American Sign Language communication ("C" or better in ASL 141 and 142) must be achieved before starting second year of classes.

<sup>3</sup> Requires a grade of "C" or higher.

<sup>4</sup> IPP 144 is taught every other year, during odd numbered years.

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Students planning to transfer and pursue a baccalaureate degree should, when given a choice, enroll in the general education course that is IAI GECC approved and articulated with participating Illinois institutions.

**Career Opportunities:** Teachers assistant, tutor deaf and hard of hearing children and provide other support services for deaf and hard of hearing children, work as job coaches for deaf and hard of hearing adults, or work in any situation where skill in American Sign Language is required.

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John A. Logan College

# Associate in Applied Science Toward a Degree in Auto Collision Technology

Career Curriculum ACT 2004  
Minimum Hours: 65  
Major Code: 1.2 470603  
Effective Date: Fall 2021

## FIRST YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
ORI	100	College 101	1	_____
ACT	190	Auto Body Repair I	2	_____
ACT	191	Metal Finishing and Painting	2	_____
ACT	196	Auto Body Lab	5	_____
MAT	113	or MAT 112 Introduction to Contemporary Mathematics OR MAT 100 Mathematics for Applied Technologies OR MAT 119 OR MAT 120 Elementary Statistics	3	_____
WEL	122	GMAW (MIG) Plate Welding	3	_____
			16	

## OPTIONAL

Dept.	No.		Hrs.	Grade
INT	101	Internship <sup>2</sup>	1-3	_____

## NOTES AND INFORMATION

<sup>1</sup> Requires a grade of "C" or higher.

<sup>2</sup> Although this class is recommended, it is not required for graduation from this program and therefore is ineligible for Title IV financial aid funding.

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## FIRST YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
ACT	192	Frame and Body Alignment	2	_____
ACT	193	Advanced Auto Body Repair	1	_____
ACT	194	Body Shop Management	1	_____
ACT	197	Auto Body Repair and Paint Lab II	5	_____
ACT	273	Chassis Electrical	3	_____
ENG	101	English Composition I <sup>1</sup> OR ENG 113 Professional Technical Writing <sup>1</sup>	3	_____
			15	

Students planning to transfer and pursue a baccalaureate degree should, when given a choice, enroll in the general education course that is IAI GECC approved and articulated with participating Illinois institutions.

**Career Opportunities:** Repair technician, insurance assessor, detailer, customer service manager.

## FIRST YEAR – SUMMER SEMESTER

Dept.	No.		Hrs.	Grade
ACT	293	Structural Damage Repair	1	_____
ACT	296	Structural Damage Repair Lab	4	_____
			5	

## SECOND YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
ACT	294	Plastics and Adhesives	2	_____
AST	280	Air Conditioning	4	_____
AST	281	Suspension and Steering	4	_____
CIS	107	Computer Applications for Business	3	_____
COM	115	Speech OR COM 116 Interpersonal Communication	3	_____
			16	

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## SECOND YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
ACT	291	Mechanical Systems for Collision Technology	2	_____
AST	279	ASE Testing	2	_____
PHS	101	Environmental Science	3	_____
		IAI Physical/Life Science or IAI Humanities/ Fine Arts Elective	3-5	_____
		IAI Social and Behavioral Science Elective	3	_____
			13-15	



John A. Logan College

# Associate in Applied Science Toward a Degree in Automotive Services Technology

Career Curriculum 00AST0004

Minimum Hours: 65

Major Code: 1.2 470604

Effective Date: Fall 2022

## FIRST YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
AST	100	Automotive Orientation and Safety	2	_____
AST	101	Automotive Maintenance & Light Repair	3	_____
AST	183	Brakes, Steering and Suspension I	3	_____
AST	180	Electrical I	3	_____
ORI	100	College 101	1	_____
MAT	100	Mathematics for Applied Technologies	<u>3</u>	_____
			15	

## FIRST YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
AST	170	Engine Repair	3	_____
AST	171	Engine Performance I	3	_____
AST	190	Electrical II	3	_____
AST	191	Automotive Service Lab I	4	_____
		IAI Social Sciences or Humanities Fine Arts	<u>3</u>	_____
			16	

## FIRST YEAR – SUMMER SEMESTER

Dept.	No.		Hrs.	Grade
COM	115	Speech	<u>3</u>	_____
			3	

## SECOND YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
AST	261	Engine Performance II	3	_____
AST	282	Automotive HVAC	3	_____
AST	283	Brakes, Steering and Suspension II	3	_____
AST	291	Automotive Service Lab II	4	_____
ENG	113	Professional Technical	<u>3</u>	_____
			16	

## SECOND YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
AST	201	Hybrid/EV History and Safety	2	_____
AST	202	Hybrid/EV Diagnostic and Service	3	_____
AST	290	Drivetrain Basics	3	_____
AST	292	Automotive Service Lab III	4	_____
		IAI Physical/Life Science	<u>3</u>	_____
			15	

## NOTES AND INFORMATION

The minimum general education component for the Associate in Applied Science degree requires satisfactory completion of at least 15 semester credits of coursework distributed over the disciplines of Communications, Mathematics, Arts and Humanities, Physical and Life Sciences, and Social and Behavioral Sciences. The curriculum guide for each Associate in Applied Science degree program will spell out the course requirements or options available for satisfying the general education component. With appropriate justification and in consultation with your academic advisor, a request to substitute a course for one recommended in this guide may be granted with the appropriate approvals from the Department Chair, Dean for Instruction and Vice-President for Instruction. However, no substitutions are allowed in Groups I-III (General Education Component; GECC) of the curriculum guide (see the Associate in Applied Science general degree requirements worksheet in the John A. Logan College Catalog).

Students planning to transfer and pursue a baccalaureate degree should, when given a choice, enroll in the general education course that is IAI GECC approved and articulated with participating Illinois institutions.

All students registered for Automotive Services Technology classes will be required to furnish a basic tool set. The set includes the following:

### Drive Sockets (1/4" sq.)

- (10) 6-pt Standard (5/32" through 1/2")
- (10) 6-pt. Metric (4, 5, 5.5, 6 through 12 mm)
- (1) Quick Release Ratchet
- (1) Extension

### Drive Sockets (3/8" sq.)

- (9) 6-pt. or 12-pt. Standard (3/8" through 7/8")
- (10) 6-pt. or 12-pt. Metric (10mm through 19mm)
- (1) Ratchet
- (1) Extension (3")
- (1) Extension (6")

### Drive Sockets (1/2" sq.)

- (4) 6-pt. or 12-pt. Standard (15/16", 1", 1 1/16", 1 1/8")
- (4) 6-pt. or 12-pt. Metric (21mm, 22mm, 24mm, 27mm)
- (1) Ratchet
- (1) Extension (3")

### Wrenches (combination)

- (7) Standard (3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4")
- (7) Metric (10mm, 12mm, 13mm, 14mm, 15mm, 17mm, 19mm)

### Screwdrivers

- (2) Slotted (1 small, 1 large)
- (2) Phillips (1 small, 1 large)

### Pliers

- (1) Slip Joint Pliers
- (1) Diagonal Cutting

### Additional Tools

- (1) Hammer
- (1) Locking Tool Box

**Additional Information:** Principles of design and operation provide for an exact appreciation of the functions of automotive units. Coordinated laboratory work develops the ability to execute diagnostic tests and complete the repairs that are indicated. The curriculum prepares students for employment as line mechanics, diagnostic technicians, and industrial maintenance personnel, as well as shop managers, company technicians, factory representatives, or teachers.

**Career Opportunities:** Line mechanic, diagnostic technician, factory representative, factory technician, self-employment, automotive technician at dealerships, independent garages, automotive specialty shops, and parts-related businesses.

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John A. Logan College

# Associate in Applied Science Toward a Degree in Biomedical Electronics Technology

Career Curriculum 00ELT 3023  
Minimum Hours: 63  
Major Code: 1.2 150401  
Effective Date: Fall 2022

## FIRST YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
ORI	100	College 101	1	_____
HIT	217	Medical Terminology I	3	_____
ELT	102	Basic Electricity and Wiring	4	_____
ELT	111	Digital Electronics I	3	_____
ENG	101	English Composition I or ENG 113		
		Professional Technical Writing	3	_____
MAT	113	or MAT 112 Introduction to Contemporary Mathematics	3	_____
			17	

## FIRST YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
ELT	103	Applied DC/AC Circuits	4	_____
ELT	112	Digital Electronics II	3	_____
ELT	150	Applied Solid State Electronics	3	_____
ELT	170	Biomedical instrumentation I	3	_____
COM	115	Speech or COM 116 Interpersonal Communications	3	_____
-			16	

## SECOND YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
ELT	151	Applied Solid State Circuits	3	_____
ELT	215	IOT and Embedded Systems	3	_____
ELT	250	Biomedical Instrumentation II	3	_____
PHY	121	Technical Physics	3	_____
IAI		Social and Behavioral Science Elective	3	_____
			15	

## SECOND YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
ELT	200	Introduction to Microprocessors	3	_____
ELT	210	A+ Preparation Essentials	3	_____
ELT	218	Introduction to Network Technologies	3	_____
ELT	220	Linear Integrated Circuits	3	_____
ELT	280	Biomedical Instrumentation III	3	_____
			15	

## NOTES AND INFORMATION

### Fall only courses:

ELT 215  
ELT 111  
ELT 151  
ELT 250

### Spring only courses:

ELT 103      ELT 210  
ELT 150      ELT 218  
ELT 170      ELT 220  
ELT 200      ELT 280

<sup>1</sup> Requires a grade of "C" or higher.

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Students planning to transfer and pursue a baccalaureate degree should, when given a choice, enroll in the general education course that is IAI GECC approved and articulated with participating Illinois institutions.

**Additional Information:** This two-year program is designed to provide a thorough understanding of DC/AC fundamentals, solid state electronics, digital electronics, microprocessor operations, and biomedical instruments. Upon completion of this program, the student will be awarded an associate degree in biomedical electronics technology. For students entering the program with prior education or on-the-job experience, it is possible to test out of the basic courses. For additional information, students should see their advisor or the chairperson of the Division of Applied Technologies.

**Career Opportunities:** Graduates of this program have career opportunities in entry level biomedical positions. Technicians install, use, maintain, and train healthcare personnel on cutting-edge medical technology. In addition, they support medical staff in the use of technology, help acquire medical equipment, coordinate vendor contracts and play a key role in investigating device related problems. The program also prepares students for the written portion of the Certified Biomedical Equipment Technician exam.

### JALC ELT Programs are education members of:



Association for the Advancement of Medical Instrumentation®  
901 N. Glebe Road, Suite 300  
Arlington, VA 22203

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John A. Logan College

# Associate in Applied Science

Toward a Degree in

## Computer Forensics

Career Curriculum CIS 2012  
Minimum Hours: 71  
Major Code: 1.2 111003  
Effective Date: Fall 2020

### FIRST YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
ORI	100	College 101	1	_____
CIS	208	Security Awareness	3	_____
CIS	230	Operating Systems	3	_____
CRJ	103	Introduction to Criminal Justice	3	_____
CRJ	105	Criminal Behavior	3	_____
MAT	120	Elementary Statistics or MAT 119 Elementary Statistics with Integrated Review <sup>3</sup>	3	_____
			<u>3</u>	_____
			16	_____

### FIRST YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
CIS	200	Network Essentials	3	_____
CIS	171	Intro to Scripting	4	_____
CIS	206	Managing Network Environment I	3	_____
CIS	207	Computer Applications for Business	3	_____
CIS	209	Introduction to Cybercrimes	3	_____
ENG	101	English Composition I OR ENG 113 Professional Technical Writing*	3	_____
			<u>3</u>	_____
			19	_____

### FIRST YEAR – SUMMER SEMESTER

Dept.	No.		Hrs.	Grade
PHL	121	Introduction to Logic	3	_____
IAI	Social & Behavioral Science Elective <sup>2</sup>		3	_____
			<u>3</u>	_____
			6	_____

### SECOND YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
CIS	216	Cloud Technology <sup>1</sup>	3	_____
CIS	219	Ethical Hacking <sup>1</sup>	3	_____
CRJ	209	Criminal Law	3	_____
ELT	214	A+ Preparation IT Technician	3	_____
CIS	229	Digital Forensics <sup>1</sup>	3	_____
			<u>3</u>	_____
			15	_____

### SECOND YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
CIS	213	Penetration Testing <sup>1</sup>	3	_____
CIS	231	VPNs and Firewalls	3	_____
CRJ	219	Criminal Procedure	3	_____
ELT	218	Intro to Network Technologies <sup>1</sup>	3	_____
COM	115	Speech OR COM 116 Speech Interpersonal Communication	3	_____
			<u>3</u>	_____
			15	_____

### NOTES AND INFORMATION

Fall Only Courses:                      Spring Only Courses:

ELT 214	CRJ 209	CIS 231	CIS 213
CIS 229		CIS 209	
CIS 216		ELT 218	
CIS 219		CRJ 219	

\*Requires a grade of "C" or higher.

<sup>1</sup> These courses have a prerequisite.

<sup>2</sup> PSY 132 is recommended.

<sup>3</sup> Or any higher level MAT course

The minimum general education component for the Associate in Applied Science degree requires satisfactory completion of at least 15 semester credits of coursework distributed over the disciplines of Communications, Mathematics, Arts and Humanities, Physical and Life Sciences, and Social and Behavioral Sciences. The curriculum guide for each Associate in Applied Science degree program will spell out the course requirements or options available for satisfying the general education component. With appropriate justification and in consultation with your academic advisor, a request to substitute a course for one recommended in this guide may be granted with the appropriate approvals from the Department Chair, Dean for Instruction and Vice-President for Instruction. However, no substitutions are allowed in Groups I-III (General Education Component; GECC) of the curriculum guide (see the Associate in Applied Science general degree requirements worksheet in the John A. Logan College Catalog).

Students planning to transfer and pursue a baccalaureate degree should, when given a choice, enroll in the general education course that is IAI GECC approved and articulated with participating Illinois institutions.

**Career Opportunities:** This degree is for students that want to work in a computer forensics environment with electronic devices that may hold evidence that could be used in a court of law. The extent of the analyses could be as simple as a personal computer or as complex as a main server for a large corporation. Preparation for COMPTIA certifications can be obtained through this degree. Graduates will be qualified for careers in computer forensics in federal, state and local agencies, law enforcement organizations, and in the private sector.

*John A. Logan College reserves the right to modify this curriculum guide as needed. Please verify with your academic advisor the accuracy and time lines of this document.*



John A. Logan College

# Associate in Applied Science Toward a Degree in Computer Information Systems

Career Curriculum CIS 0400  
Minimum Hours: 62  
Major Code: 1.2 110103  
Effective Date: Fall 2020

## FIRST YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
ORI	100	College 101	1	_____
CIS	200	Network Essentials	3	_____
CIS	206	Managing Network Environment I	3	_____
CIS	207	Computer Application for Business	3	_____
ENG	101	English Composition I <sup>1</sup> OR ENG 113 Professional Technical Writing <sup>1</sup>	3	_____
MAT	120	Elementary Statistics or MAT 119 Elementary Statistics with Integrated Review OR BUS 111 Business Mathematics <sup>4</sup>	<u>3</u> 16	_____

## NOTES AND INFORMATION

Fall Only Courses: CIS 200 CIS 216  
CIS 206 CIS 225

Spring Only Courses: CIS 209 CIS 231  
CIS 220

\*BUS 115 or equivalent is a recommended prerequisite for this program. Students who do not meet prerequisite should take BUS 115 their first semester of enrollment.

Students planning to capstone with SIU should follow the appropriate capstone curriculum guide.

## FIRST YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
ACC	100	Business Accounting OR ACC 200 Financial Accounting I	3	_____
CIS	120	Database Management	3	_____
CIS	208	Security Awareness	3	_____
CIS	209	Introduction to Cybercrimes	3	_____
CIS	230	Operating Systems	<u>3</u> 15	_____

<sup>1</sup> Requires a grade of "C" or higher.

<sup>2</sup> Students may choose electives from the following classes: CIS 213 Penetration Testing OR ELT 218 Introduction to Network Technologies

<sup>3</sup> These courses have a prerequisite.

<sup>4</sup> Or any higher level MAT course

The Computer Information Systems AAS (CIS 0400) is the parent program to:

- Computer Information Systems Certificate (CIS 0401)
- Computer Networking (CIS 1206)

## SECOND YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
BUS	110	Introduction to Business	3	_____
CIS	104	Spreadsheet Design	3	_____
CIS	216	Cloud Technology <sup>3</sup>	3	_____
CIS	171	Introduction to Scripting	4	_____
PHL	121	Introduction to Logic	<u>3</u> 16	_____

The minimum general education component for the Associate in Applied Science degree requires satisfactory completion of at least 15 semester credits of coursework distributed over the disciplines of Communications, Mathematics, Arts and Humanities, Physical and Life Sciences, and Social and Behavioral Sciences. The curriculum guide for each Associate in Applied Science degree program will spell out the course requirements or options available for satisfying the general education component. With appropriate justification and in consultation with your academic advisor, a request to substitute a course for one recommended in this guide may be granted with the appropriate approvals from the Department Chair, Dean for Instruction and Vice-President for Instruction. However, no substitutions are allowed in Groups I-III (General Education Component; GECC) of the curriculum guide (see the Associate in Applied Science general degree requirements worksheet in the John A. Logan College Catalog).

Students planning to transfer and pursue a baccalaureate degree should, when given a choice, enroll in the general education course that is IAI GECC approved and articulated with participating Illinois institutions.

## SECOND YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
CIS	220	Advanced Spreadsheet Design <sup>3</sup>	3	_____
CIS	231	VPNs and Firewalls	3	_____
ECO	201	Introduction to Macroeconomics OR ECO 202 Introduction to Microeconomics	3	_____
COM	115	Speech OR COM 116 Interpersonal Communication	3	_____
	Elective <sup>2</sup>		<u>3</u> 15	_____

**Career Opportunities:** This degree is for students that want to work in a computer environment and work with the computer applications as well as administer a network. This degree will concentrate more on computer applications and networking than on business office practices. Preparation for MOS certifications can be obtained through this degree. This degree will also capstone to SIU through Information Systems Technologies and Health Care Management.

*John A. Logan College reserves the right to modify this curriculum guide as needed. Please verify with your academic advisor the accuracy and time lines of this document.*



# Associate in Applied Science

Toward a Degree in

## Computer Support & Networking

Career Curriculum 00ELT3015  
Minimum Hours: 62  
Major Code: 1.2 470104  
Effective Date: Fall 2022

### FIRST YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
ORI	100	College 101	1	_____
CIS	200	Network Essentials	3	_____
CIS	206	Managing Network Environments I <sup>2</sup>	3	_____
ELT	102	Basic Electricity and Wiring	4	_____
ELT	111	Digital Electronics I	3	_____
MAT	113	or MAT 112 Introduction to Contemporary Mathematics	3 17	_____

### FIRST YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
CIS	208	Security Awareness	3	_____
CIS	230	Operating Systems	3	_____
ELT	150	Applied Solid State Electronics <sup>4</sup>	3	_____
ELT	112	Digital Electronics II	3	_____
PHY	121	Technical Physics	3 15	_____

### SECOND YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
CIS	216	Cloud Technology <sup>1</sup>	3	_____
ELT	214	A+ Preparation IT Technician	3	_____
ELT	215	IOT and Embedded Systems <sup>1</sup>	3	_____
ENG	101	English Composition I <sup>1</sup> OR ENG 113 Professional Technical Writing	3	_____
COM	115	Speech OR COM116 Interpersonal Communication	3 15	_____

### SECOND YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
CIS	213	Penetration Testing <sup>1</sup>	3	_____
ELT	200	Introduction to Microprocessors	3	_____
ELT	210	A+ Preparation Essentials	3	_____
ELT	218	Introduction to Network Technologies	3	_____
IAI		Social and Behavioral Science Elective	3 15	_____

### OPTIONAL:

INT 101 Internship 1-4 hours<sup>3</sup>

### NOTES AND INFORMATION

#### Fall Only Courses:

CIS 216    ELT 111  
ELT 214  
ELT 215

#### Spring Only Courses:

CIS 213    ELT 200  
ELT 112    ELT210  
ELT 150    ELT218

<sup>1</sup> Requires a grade of "C" or higher.

<sup>2</sup> These courses have a prerequisite.

<sup>3</sup> Although this class is recommended, it is not required for graduation from this program and therefore is ineligible for Title IV financial aid funding.

<sup>4</sup>MFT 103 (Fall) may be taken as a substitute for ELT 150 (Spring)

The Computer Support and Networking Degree AAS (00ELT3015) is an ICCB approved extension of the Electronics Technology AAS Degree (00ELT3010) and is the parent program to:

- Information System Technician Certificate Program (ELT 0106)
- IST Computer Support and Networking, Information Systems Technology Capstone Option at SIUC AAS Degree Program (00ELT3022)

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Students planning to transfer and pursue a baccalaureate degree should, when given a choice, enroll in the general education course that is IAI GECC approved and articulated with participating Illinois institutions.

**Career Opportunities:** Entry-level IT Technician, Entry-level IT Security, PC Repair Person, Wireless Network Administrator, Entry-Level Wireless Network Security Administrator, Entry-level Server Administrative Network Technician.

#### JALC ELT Programs are education members of:



Institute of Electrical and Electronics Engineers  
445 Hoes Lane  
Piscataway, NJ 08854



Association for Computing Machinery  
1601 Broadway, 10th Floor  
New York, NY 10019-7434

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# Associate in Applied Science

## Toward a Degree in Construction Management Technology

Career Curriculum 00CMG0033  
Minimum Hours: 70  
Major Code: 1.2 522001  
Effective Date: Fall 2022

### FIRST YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
ORI	100	College 101	1	_____
CMG	100	Construction Orientation	1	_____
CMG	104	Building Layout	4	_____
CMG	110	Structural Framing I	4	_____
ENG	101	English Composition I <sup>1</sup> OR ENG 113 Professional Technical Writing <sup>1</sup>	3	_____
MAT	113	OR MAT 112 Introduction to Contemporary Mathematics OR MAT 100 Mathematics for Applied Technologies	3 16	_____

### NOTES AND INFORMATION

<sup>1</sup> Must be completed with a “C” or higher.

<sup>2</sup> Business Electives: ACC 100, ACC 200, BUS 110, BUS 222, CIS 101, ECO 201, ECO 202

<sup>3</sup> Although this class is recommended, it is not required for graduation from this program and therefore is ineligible for Title IV financial aid funding.

The minimum general education component for the Associate in Applied Science degree requires satisfactory completion of at least 15 semester credits of coursework distributed over the disciplines of Communications, Mathematics, Arts and Humanities, Physical and Life Sciences, and Social and Behavioral Sciences. The curriculum guide for each Associate in Applied Science degree program will spell out the course requirements or options available for satisfying the general education component. With appropriate justification and in consultation with your academic advisor, a request to substitute a course for one recommended in this guide may be granted with the appropriate approvals from the Department Chair, Dean for Instruction and Vice-President for Instruction. However, no substitutions are allowed in Groups I-III (General Education Component; GECC) of the curriculum guide (see the Associate in Applied Science general degree requirements worksheet in the John A. Logan College Catalog).

Students planning to transfer and pursue a baccalaureate degree should, when given a choice, enroll in the general education course that is IAI GECC approved and articulated with participating Illinois institutions.

### FIRST YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
CMG	105	Estimating Techniques	3	_____
CMG	107	Construction Document Interpretation	3	_____
CMG	108	Construction Materials	4	_____
CMG	111	Structural Framing II	3	_____
IAI Social and Behavioral Science Elective			3	_____
COM	115	Speech OR COM 116 Interpersonal Communication	3 19	_____

**Additional Information:** Students interested in or pursuing an Associate in Applied Science (AAS) degree should investigate the Capstone Option and participating majors at SIUC. Individuals who apply and are approved for a degree program under Capstone are able to earn a bachelor’s degree in just 60 semester credits beyond the AAS degree. The general education or University Core Curriculum requirement for majors under Capstone is set at 30 semester credits rather than 41.

One of the Capstone options available to Construction Management Technology degree holders is a major in Technical Resource Management (TRM) which can lead to a bachelor’s degree with an emphasis in Construction Management.

### SECOND YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
Business Elective <sup>2</sup>			3	_____
CMG	207	Construction Administration	2	_____
CMG	208	Processes in Estimating	3	_____
CMG	211	Commercial Construction	3	_____
CMG	220	Construction Scheduling	3	_____
PHY	121	Technical Physics	3 17	_____

For Capstone Option consideration and approval, candidates must submit a Capstone Option application along with the Undergraduate Admission application, must earn the AAS degree and must have an earned GPA of at least 2.5 (A= 4.0). Approval means that you can complete bachelor degree requirements in just 60 planned semester credits beyond the AAS degree.

**Career Opportunities:** Cost engineer; field engineer; project coordinator; construction manager; project manager; office engineer; scheduler; estimator; safety inspector.

### SECOND YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
CMG	209	Environmental Systems	3	_____
CMG	212	Construction Business Management	3	_____
CMG	215	Green Building in the 21 <sup>st</sup> Century	3	_____
CMG	218	CAD for Construction	3	_____
CMG	221	Land Development	3	_____
CMG	226	Statics for Structures	3 18	_____

### OPTIONAL

Dept.	No.		Hrs.	Grade
INT	101	Internship <sup>3</sup>	1-3	_____

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John A. Logan College

# Associate in Applied Science

## Toward a Degree in Cosmetology

Career Curriculum 00COS0007  
Minimum Hours: 64  
Major Code: 1.2 120401  
Effective Date: Summer  
2022

### FIRST YEAR – FALL SEMESTER

Dept. No.	Hrs.	Grade
ORI 100 College 101	1	_____
COS 101 Cosmetology Theory I	6	_____
COS 111 Cosmetology Laboratory I	<u>11</u>	_____
	18	

### FIRST YEAR – SPRING SEMESTER

Dept. No.	Hrs.	Grade
COS 102 Cosmetology Theory II	5	_____
COS 112 Cosmetology Laboratory II	<u>11</u>	_____
	16	

### FIRST YEAR - SUMMER SEMESTER

Dept. No.	Hrs.	Grade
COS 113 Cosmetology Lab III	3	_____
COS 114 Cosmetology Internship	<u>2</u>	_____
	5	

### SECOND YEAR – FALL SEMESTER

Dept. No.	Hrs.	Grade
ACC 100 Business Accounting	3	_____
PSC 131 American Government OR HIS 201 United States History I OR HIS 202 United States History II	3	_____
PSY 132 General Psychology	3	_____
COM 115 Speech	<u>3</u>	_____
	12	

### SECOND YEAR – SPRING SEMESTER

Dept. No.	Hrs.	Grade
BIO 100 Biology for Non-Science Majors	4	_____
CIS 207 Computer Applications	3	_____
ENG 101 English Composition <sup>1,2</sup>	3	_____
MAT 113 OR MAT 112 Introduction to Contemporary Mathematics <sup>2</sup> OR MAT 120 Elementary Statistics <sup>2</sup> OR BUS 111 Business Mathematics	<u>3</u>	_____
	13	

### NOTES AND INFORMATION

\* Or any higher math course.

<sup>1</sup> Requires a grade of "C" or higher.

<sup>2</sup> Recommended for transfer students. Students transferring to SIU-C's WED program must take ENG 101 and MAT 113 or MAT 120.

The minimum general education component for the Associate in Applied Science degree requires satisfactory completion of at least 15 semester credits of coursework distributed over the disciplines of Communications, Mathematics, Arts and Humanities, Physical and Life Sciences, and Social and Behavioral Sciences. The curriculum guide for each Associate in Applied Science degree program will spell out the course requirements or options available for satisfying the general education component. With appropriate justification and in consultation with your academic advisor, a request to substitute a course for one recommended in this guide may be granted with the appropriate approvals from the Department Chair, Dean for Instruction and Vice-President for Instruction. However, no substitutions are allowed in Groups I-III (General Education Component; GECC) of the curriculum guide (see the Associate in Applied Science general degree requirements worksheet in the John A. Logan College Catalog).

Students planning to transfer and pursue a baccalaureate degree should, when given a choice, enroll in the general education course that is IAI GECC approved and articulated with participating Illinois institutions.

### Additional Information:

The Cosmetology Program is designed to give students thorough training in the arts, skills, and applied sciences that deal with adornment through care and treatment of the hair, nails, and skin.

The Cosmetology Program meets the standards of the Department of Financial and Professional Regulation-Division of Professional Regulation, State of Illinois, in total hours, teaching staff, equipment, facilities, library, and course content.

Graduates are prepared for licensure by the Department of Financial and Professional Regulation-Division of Professional Regulation, State of Illinois, upon passing the Illinois Cosmetology examination. This qualifies the graduate for employment and an Associate in Applied Science degree.

**Career Opportunities:** Cosmetologist, salon owner, salon manager, manicurist/pedicurist/nail technician, hairstylist/hair dresser, sales representative.

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John A. Logan College

# Associate in Applied Science

Toward a Degree in

## Criminal Justice

Career Curriculum CRJ0550  
Minimum Hours: 61  
Major Code: 1.2 430107C  
Effective Date: Fall 2022

### FIRST YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
ORI	100	College 101	1	_____
ALH	101	Cardiopulmonary Resuscitation	1	_____
CRJ	103	Introduction to Criminal Justice	3	_____
CRJ	105	Criminal Behavior	3	_____
ENG	113	Professional Technical Writing <sup>1</sup>	3	_____
PSC	131	American Government	3	_____
		Any IAI Science Elective	<u>3</u>	_____
			17	

### FIRST YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
CRJ	203	Introduction to Security	3	_____
CRJ	205	Investigation Techniques	3	_____
LIT	284	Ethnic Literature in America OR HIS 101 Western Civilization I	3	_____
MAT	113	OR MAT 112 Introduction to Contemporary Mathematics OR MAT 100 Math for Applied Technologies <sup>†</sup>	3	_____
PSY	132	General Psychology	<u>3</u>	_____
			15	

### FIRST YEAR – SUMMER SEMESTER

Dept.	No.		Hrs.	Grade
COM	115	Speech	<u>3</u>	_____
			3	

### SECOND YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
CRJ	115	Policing, OR INT 101 <sup>3</sup>	3	_____
CRJ	209	Criminal Law	3	_____
CRJ	218	Introduction to Corrections OR INT 101 <sup>3</sup>	3	_____
CRJ	223	Juvenile Justice	3	_____
SPN	101	Elementary Spanish I OR ASL 141	<u>4</u>	_____
			13	

### SECOND YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
CIS	207	Computer Applications for Business OR CIS 209 Introduction to Cybercrimes <sup>2</sup>	3	_____
CRJ	219	Criminal Procedure	3	_____
CRJ	220	Probation, Parole, and Community-Based Corrections	3	_____
CRJ	221	Police Administration	3	_____
SPN	102	Elementary Spanish II OR ASL 142	<u>4</u>	_____
			13	

### NOTES AND INFORMATION

\*Or any higher math course.

\*All core courses (CRJ) must be completed with a "C" or higher.

\*Your transfer institution may have policy guidelines in place allowing community college students to transfer credits beyond the associate degree that apply toward fulfilling degree requirements. For example, some degree programs at SIUC will accept and apply up to 78 credits toward baccalaureate degree requirements. If you are planning to transfer to an Illinois IAI participating institution that accepts and applies credit beyond the AAS, consider selecting courses from the following that will fulfill the IAI Transferable General Education Core Curriculum (GECC). Communications: ENG 102; Mathematics: MAT 113; Humanities and Fine Arts: 3 credits of IAI Fine Arts electives and HIS 102; Social and Behavioral Sciences: SOC 133; Physical and Life Sciences: at least 7 credits are required with one course being a Life Science elective and one being a Physical Science Elective and one of the two must be a lab science course. Consult with a program advisor at your transfer institution to determine number of credits accepted and if your intended major requires any specific general education courses in the major you select.

<sup>1</sup> Requires a grade of "C" or higher.

<sup>2</sup> Spring only.

<sup>3</sup> INT 101 requires the completion of 225 clock hours.

### Policing Required Electives-Track One

CRJ	115	Policing, OR INT 101	3	_____
CRJ	221	Police Administration	3	_____

### Corrections Required Electives-Track Two

CRJ	218	Introduction to Corrections, OR INT 101	3	_____
CRJ	220	Probation, Parole, and Community-Based Corrections	3	_____

The minimum general education component for the Associate in Applied Science degree requires satisfactory completion of at least 15 semester credits of coursework distributed over the disciplines of Communications, Mathematics, Arts and Humanities, Physical and Life Sciences, and Social and Behavioral Sciences. The curriculum guide for each Associate in Applied Science degree program will spell out the course requirements or options available for satisfying the general education component. With appropriate justification and in consultation with your academic advisor, a request to substitute a course for one recommended in this guide may be granted with the appropriate approvals from the Department Chair, Dean for Instruction and Vice-President for Instruction. However, no substitutions are allowed in Groups I-III (General Education Component; GECC) of the curriculum guide (see the Associate in Applied Science general degree requirements worksheet in the John A. Logan College Catalog).

Students planning to transfer and pursue a baccalaureate degree should, when given a choice, enroll in the general education course that is IAI GECC approved and articulated with participating Illinois institutions.

**Additional Information:** The Criminal Justice A. A. S. degree program meets the objectives of students considering careers in policing, the courts, corrections, juvenile justice, and private security, as well as preparing students for transfer and maximizing articulation with baccalaureate programs in Administration of Justice, Criminal Justice, Police Science, etc.

**Career Opportunities:** Positions in law enforcement: Administrative Agencies (local, state, federal, natural resource); Courts (security, administration, probation); Corrections (local, state, federal, parole); Juvenile Justice (law enforcement, probation, corrections); Private Security (loss prevention, asset protection, investigations, human resources)

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John A. Logan College

# Associate in Applied Science

Toward a Degree in

## Cyber-Security/Information Assurance

Career Curriculum CIS 2015  
 Minimum Hours: 65  
 Major Code: 1.2 111003  
 Effective Date: Fall 2020

### FIRST YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
ORI	100	College 101	1	_____
CIS	207	Computer Applications for Business	3	_____
CIS	170	CISCO I	5	_____
CIS	200	Network Essentials	3	_____
CIS	206	Managing Network Environment I	3	_____
MAT	120	Elementary Statistic OR MAT 119 Elementary Statistics with Integrated Review OR BUS 111 Business Mathematics	3 3	_____
			18	

### FIRST YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
CIS	208	Security Awareness	3	_____
CIS	230	Operating Systems	3	_____
CIS	270	CISCO II <sup>1</sup>	4	_____
ENG	113	Professional Technical Writing OR ENG 101 English Composition*	3	_____
Elective – Track 1 or Track 2 <sup>3</sup>			3	_____
			16	

### SECOND YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
CIS	171	Intro to Scripting	4	_____
CIS	216	Cloud Technology <sup>1</sup>	3	_____
CIS	219	Ethical Hacking <sup>1</sup>	3	_____
ELT	214	A+ Preparation IT Technician	3	_____
IAI Social and Behavioral Science Elective <sup>2</sup> OR If following Track I: CIS 229			3 16	_____

### SECOND YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
CIS	213	Penetration Testing <sup>1</sup>	3	_____
CIS	231	Firewalls and VPN's <sup>1</sup>	3	_____
PHL	121	Introduction to Logic	3	_____
COM	115	Speech OR COM 116 Interpersonal Communication	3	_____
Elective – Track 1 or Track 2 <sup>3</sup> OR If following Track I: IAI Social & Behavioral Science Elective <sup>2</sup>			3 15	_____

### NOTES AND INFORMATION

Fall Only Courses:		Spring Only Courses:	
CIS 170	CIS 229	CIS 270	ELT 210
ELT 214		CIS 209*	ELT 218
CIS 216		CIS 213	
CIS 219		CIS 231	

\*Course requires a grade of "C" or above

<sup>1</sup> These courses have a prerequisite.

<sup>2</sup> PSY 132 is recommended.

<sup>3</sup> **Track 1 Electives** – CIS 209 – Introduction to Cybercrimes-spring only class, CIS 229 – Digital Forensics<sup>1</sup>- fall only class. CIS 209\* is prerequisite to CIS 229.

<sup>3</sup> **Track 2 Electives** – ELT 210 – A+ Preparation Essentials, ELT 218 – Intro to Network Technologies. Both classes taught spring semesters only.

**Note: Students planning on following Track 1 should take CIS 209 during the first year, spring semester and CIS 229 during the second year, fall semester. The IAI Social Science course may then be taken during the second year, spring semester.**

The Cyber-Security/Information Assurance AAS Degree (CIS 2015) is an ICCB approved extension of the Computer Forensics AAS Degree (CIS 2012).

The minimum general education component for the Associate in Applied Science degree requires satisfactory completion of at least 15 semester credits of coursework distributed over the disciplines of Communications, Mathematics, Arts and Humanities, Physical and Life Sciences, and Social and Behavioral Sciences. The curriculum guide for each Associate in Applied Science degree program will spell out the course requirements or options available for satisfying the general education component. With appropriate justification and in consultation with your academic advisor, a request to substitute a course for one recommended in this guide may be granted with the appropriate approvals from the Department Chair, Dean for Instruction and Vice-President for Instruction. However, no substitutions are allowed in Groups I-III (General Education Component; GECC) of the curriculum guide (see the Associate in Applied Science general degree requirements worksheet in the John A. Logan College Catalog).

Students planning to transfer and pursue a baccalaureate degree should, when given a choice, enroll in the general education course that is IAI GECC approved and articulated with participating Illinois institutions.

**Career Opportunities:** This degree is for students that want to work in a small to medium size business environment with routers, firewalls, and VPN's managing develop security policies and design networks while keeping data secure. Preparation for COMPTIA, Net+, A+, CCENT and CCNA certifications can be obtained through this degree. Graduates will be qualified for careers in cybersecurity and information assurance in federal, state and local agencies, and the private sector.

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# Associate in Applied Science

## Toward a Degree in

### Early Childhood Education\*\*

Career Curriculum ECE0005  
 Minimum Hours: 64  
 Major Code: 1.2 190709  
 Effective Date: Fall 2019

#### FIRST YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
ORI	100	College 101	1	_____
ECE	150	Infancy Development	3	_____
ECE	151	Health, Safety, and Nutrition	3	_____
ECE	160	Child, Growth, and Development	3	_____
ECE	161	Early Childhood Practicum <sup>2</sup>	1	_____
ECE	272	Language and Literacy Development	3	_____
PSY	132	General Psychology	<u>3</u>	_____
			17	

#### FIRST YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
ALH	101	Cardiopulmonary Resuscitation	1	_____
ECE	120	Guiding Play and Learning	3	_____
ECE	220	Infant Toddler Curriculum	3	_____
ECE	265	Early Childhood Curriculum	3	_____
ENG	101	English Composition I	3	_____
PSY	262	Child Psychology	<u>3</u>	_____
			16	

#### SECOND YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
ECE	260	Child, Family, and Community	3	_____
ECE	267	Child Care Laboratory	5	_____
LIT	264	Literature for Children	3	_____
MAT	120	OR MAT 119 Elementary Statistics* <sup>1</sup> OR MAT 108 College Algebra <sup>1</sup> OR BUS 111 Business Mathematics	3-4	_____
COM	115	Speech	<u>3</u>	_____
			17-18	

#### SECOND YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
ECE	240	Observation and Assessment	3	_____
ECE	245	The Exceptional Child	3	_____
ECE	266	Pre-School Administration	3	_____
ECE	268	Child Care Laboratory	<u>5</u>	_____
			14	

#### NOTES AND INFORMATION

\*Or any higher math course.

\*\*All courses require a grade of "C" or higher.

<sup>1</sup> Recommended for transfer students.

<sup>2</sup> Prerequisite: ECE 160, Minimum Grade: C or **Concurrent enrollment in ECE 160**

The Early Childhood Education AAS Degree Program (ECE 0005) is the parent program to:

- Early Childhood Education Director's Credential Certificate Program (00CHC0018)
- Family Child Care Certificate Program (ECE 0006)

Students completing the program will also earn IL Gateways to Opportunity, Infant Toddler Credential.

The minimum general education component for the Associate in Applied Science degree requires satisfactory completion of at least 15 semester credits of coursework distributed over the disciplines of Communications, Mathematics, Arts and Humanities, Physical and Life Sciences, and Social and Behavioral Sciences. The curriculum guide for each Associate in Applied Science degree program will spell out the course requirements or options available for satisfying the general education component. With appropriate justification and in consultation with your academic advisor, a request to substitute a course for one recommended in this guide may be granted with the appropriate approvals from the Department Chair, Dean for Instruction and Vice-President for Instruction. However, no substitutions are allowed in Groups I-III (General Education Component; GECC) of the curriculum guide (see the Associate in Applied Science general degree requirements worksheet in the John A. Logan College Catalog).

Students planning to transfer and pursue a baccalaureate degree should, when given a choice, enroll in the general education course that is IAI GECC approved and articulated with participating Illinois institutions.

**Additional Information:** Graduates of this two-year Early Childhood Education Program will be trained to provide education and care for children in public and private child care settings to include the following: maintaining a safe and healthy learning environment; providing experiences to promote physical, intellectual, social/emotional, and language/literacy development; using positive guidance/discipline strategies; establishing positive and productive relationships with families; and operating a well-run program for children that adheres to legal requirements and a professional code of ethics.

**Career Opportunities:** Director, assistant director, lead teacher, teacher, and an assistant in child care programs, Head Start, and school-age programs. Also qualified to be a parent educator and coordinator, child development specialist, work in social service programs, Even Start programs, and Child Care Resource and Referral. Teacher aide and assistant, school office assistant, school library assistant, playground assistant in grades Pre-K through twelve. Graduates of this program are also qualified to own and operate child care centers.

*John A. Logan College reserves the right to modify this curriculum guide as needed. Please verify with your academic advisor the accuracy and time lines of this document.*



# Associate in Applied Science

Toward a Degree in

## Electrical Engineering Technology

Career Curriculum ELT3012  
Minimum Hours: 66  
Major Code: 1.2 150303  
Effective Date: Fall 2022

### FIRST YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
ORI	100	College 101	1	_____
ELT	102	Basic Electricity and Wiring	4	_____
ELT	111	Digital Electronics I	3	_____
MAT	111	Pre-Calculus	5	_____
MFT	103	Industrial Robots and PLCs	3	_____
			16	

### NOTES AND INFORMATION

<sup>1</sup> Requires a grade of "C" or higher.

Fall only courses:		Spring only courses:	
ELT 111	ELT 103	ELT 218	
ELT 151	ELT 112	ELT 220	
ELT 214	ELT 150	ELT 224	
ELT 215	ELT 200		
MFT 103	ELT 210		

The Electrical Engineering Technology AAS Degree (ELT 3012) is an ICCB approved extension of the Electronics Technology AAS Degree (00ELT3010).

### FIRST YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
ELT	103	Applied DC/AC Circuits	4	_____
ELT	112	Digital Electronics II	3	_____
ELT	150	Applied Solid State Electronics	3	_____
ENG	101	English Composition <sup>1</sup> OR ENG 113 Professional Technical Writing <sup>1</sup>	3	_____
MAT	131	Calculus I	5	_____
			18	

The minimum general education component for the Associate in Applied Science degree requires satisfactory completion of at least 15 semester credits of coursework distributed over the disciplines of Communications, Mathematics, Arts and Humanities, Physical and Life Sciences, and Social and Behavioral Sciences. The curriculum guide for each Associate in Applied Science degree program will spell out the course requirements or options available for satisfying the general education component. With appropriate justification and in consultation with your academic advisor, a request to substitute a course for one recommended in this guide may be granted with the appropriate approvals from the Department Chair, Dean for Instruction and Vice-President for Instruction. However, no substitutions are allowed in Groups I-III (General Education Component; GECC) of the curriculum guide (see the Associate in Applied Science general degree requirements worksheet in the John A. Logan College Catalog).

Students planning to transfer and pursue a baccalaureate degree should, when given a choice, enroll in the general education course that is IAI GECC approved and articulated with participating Illinois institutions.

**Career Opportunities:** The graduate in Electronics Engineering Technology will be prepared for entry-level careers in areas such as: Product development and support Technician, Field engineering/service Technician, Test Engineering Technician, Technical documentation, Technical sales/marketing, Telecommunications and wireless systems development and support, Research and development, Quality assurance, Technical documentation.

### SECOND YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
COM	115	Speech OR COM 116 Interpersonal Communication	3	_____
ELT	151	Applied Solid State Circuits	3	_____
ELT	214	A+ Preparation IT Technician	3	_____
ELT	215	IOT and Embedded Systems	3	_____
PHY	155	College Physics I	5	_____
			17	

### SECOND YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
ELT	200	Introduction to Microprocessors	3	_____
ELT	210	A+ Prep Essentials	3	_____
ELT	218	Introduction to Network Technologies	3	_____
ELT	220	Linear Integrated Circuits	3	_____
ELT	224	Power Distribution and Motors	3	_____
			15	

### JALC ELT Programs are education members of:



Institute of Electrical and Electronics Engineers  
445 Hoes Lane  
Piscataway, NJ 08854



Association for Computing Machinery  
1601 Broadway, 10th Floor  
New York, NY 10019-7434

*John A. Logan College reserves the right to modify this curriculum guide as needed. Please verify with your academic advisor the accuracy and time lines of this document.*



# Associate in Applied Science

## Toward a Degree in

# Electronics Technology

Career Curriculum 00ELT3010  
 Minimum Hours: 65  
 Major Code: 1.2 150303  
 Effective Date: Fall 2022

### FIRST YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
ORI	100	College 101	1	_____
ELT	102	Basic Electricity and Wiring	4	_____
ELT	111	Digital Electronics I	3	_____
MAT	113	OR MAT 112 Introduction to Contemporary Mathematics	3	_____
COM	115	Speech OR COM 116 Interpersonal Communication	3	_____
MFT	103	Industrial Robots and PLCs	3	_____
			<u>3</u>	
			17	

### NOTES AND INFORMATION

<sup>1</sup> Requires a grade of “C” or higher.

<u>Fall only courses:</u>		<u>Spring only courses:</u>			
ELT 111	ELT 215	ELT 103	ELT 210	ELT 112	ELT 220
ELT 151	MFT 103	ELT 104	ELT 224	ELT 200	
ELT 214		ELT 150	MFT 201	ELT 218	

The Electronics Technology AAS Degree (00ELT3010) is the parent program to:

- Computer Support and Networking (00ELT3015)
- Electrical Engineering Technology AAS Degree (ELT 3012)
- Industrial Maintenance Engineering AAS Degree (00ELT3012)

### FIRST YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
ELT	103	Applied DC/AC Circuits	4	_____
ELT	104	Introduction to VFDs	2	_____
ELT	112	Digital Electronics II	3	_____
ELT	150	Applied Solid State Electronics	3	_____
MFT	201	PLC Manufacturing Systems	3	_____
			<u>3</u>	
			15	

The minimum general education component for the Associate in Applied Science degree requires satisfactory completion of at least 15 semester credits of coursework distributed over the disciplines of Communications, Mathematics, Arts and Humanities, Physical and Life Sciences, and Social and Behavioral Sciences. The curriculum guide for each Associate in Applied Science degree program will spell out the course requirements or options available for satisfying the general education component. With appropriate justification and in consultation with your academic advisor, a request to substitute a course for one recommended in this guide may be granted with the appropriate approvals from the Department Chair, Dean for Instruction and Vice-President for Instruction. However, no substitutions are allowed in Groups I-III (General Education Component; GECC) of the curriculum guide (see the Associate in Applied Science general degree requirements worksheet in the John A. Logan College Catalog).

Students planning to transfer and pursue a baccalaureate degree should, when given a choice, enroll in the general education course that is IAI GECC approved and articulated with participating Illinois institutions.

**Additional Information:** This two-year program is designed to provide a thorough understanding of DC/AC fundamentals, solid state electronics, digital electronics, microprocessor operations, and industrial electronics. Upon completion of this program, the student will be awarded an associate degree in electronics technology. For students entering the program with prior education or on-the-job experience, it is possible to test out of the basic courses. For additional information, students should see their advisor or the chairperson of the Division of Applied Technologies.

Because the electronics curriculum has been articulated with the College of Engineering and Technology at SIU, a graduate of this program has the option of seeking employment directly after graduation or transferring to SIU to pursue a B. S.

**Career Opportunities:** The Electronics Technician has career opportunities in many entry-level areas such as: Electronic equipment installation and repair, Maintenance Technician, Broadcast Communications Technician, System Technician, Plant Technician, Telephone Technician, Fiber Optic Technician, Telecommunications Technician and Technical Report Writers. The typical job related activities may involve assembly, installation, maintenance, testing, troubleshooting and repair.

#### JALC ELT Programs are education members of:

	Institute of Electrical and Electronics Engineers 445 Hoes Lane Piscataway, NJ 08854
	Association for Computing Machinery 1601 Broadway, 10th Floor New York, NY 10019-7434

### SECOND YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
ELT	151	Applied Solid State Circuits	3	_____
ELT	214	A+ Preparation IT Technician	3	_____
ELT	215	IOT and Embedded Systems	3	_____
ENG	101	English Composition I <sup>1</sup> OR ENG 113 Professional Technical Writing <sup>1</sup>	3	_____
IAI Social and Behavioral Science Elective			<u>3</u>	_____
			15	

### SECOND YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
ELT	218	Introduction to Network Technologies	3	_____
ELT	210	A+ Preparation Essentials	3	_____
ELT	200	Introduction to Microprocessors	3	_____
ELT	220	Linear Integrated Circuits	3	_____
ELT	224	Power Distribution and Motors	3	_____
PHY	121	Technical Physics	3	_____
			<u>3</u>	
			18	

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John A. Logan College

# Associate in Applied Science Toward a Degree in Emergency Medical Services

Career Curriculum EMS0101  
Minimum Hours: 66  
Major Code: 1.2 510904  
Effective Date: Fall 2020

## FIRST YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
ORI	100	College 101	1	_____
BIO	205	Human Anatomy and Physiology I	4	_____
EMS	250	Paramedic I	<u>12</u>	_____
			17	

## FIRST YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
EMS	251	Paramedic II	9	_____
EMS	251A	Paramedic II Clinical	<u>3</u>	_____
			12	

## FIRST YEAR – SUMMER SEMESTER

Dept.	No.		Hrs.	Grade
EMS	252	Paramedic III	9	_____
EMS	252A	Paramedic III Clinical	<u>3</u>	_____
			12	

## SECOND YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
EMS	253	Paramedic IV	9	_____
EMS	253A	Paramedic IV Clinical	<u>3</u>	_____
			12	

## SECOND YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
BIO	206	Human Anatomy and Physiology II	4	_____
ENG	101	English Composition <sup>1</sup> OR ENG 113 Professional & Technical Writing <sup>1</sup>	3	_____
MAT	113	OR MAT 112 Introduction to Contemporary Mathematics <sup>2</sup> OR MAT 104 Mathematics for Allied Health <sup>*</sup>	3	_____
COM	115	Speech <sup>2</sup> OR COM 116 Interpersonal Communication	<u>3</u>	_____
			13	

## NOTES AND INFORMATION

- Prior to entrance into the EMS Program:  
Students must successfully complete EMT 111. American Heart Association Basic Life Support Cardiopulmonary Resuscitation is the prerequisite for EMT 111.  
Students must hold a current Illinois EMT-Basic (EMT-B) or (EMT-Intermediate (EMT-I) license. Upon successful completion of EMT 253 the student will be eligible for Illinois paramedic licensing examination.

\* Or any higher math course.

<sup>1</sup> Requires a grade of "C" or higher.

<sup>2</sup> Recommended for transfer students.

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Students planning to transfer and pursue a baccalaureate degree should, when given a choice, enroll in the general education course that is IAI GECC approved and articulated with participating Illinois institutions.

**Career Opportunities:** Graduates of the program are qualified to take the State Certification Examination which is required for paramedic licensure in the state of Illinois. Licensed paramedics have employment opportunities in hospitals, ambulance services, fire departments, colleges and within various governmental programs.

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# Associate in Applied Science

## Toward a Degree in Graphic Design

Career Curriculum GRD2004  
Minimum Hours: 65  
Major Code: 1.2 500409  
Effective Date: Fall 2019

### FIRST YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
ORI	100	College 101	1	_____
ART	101	Two Dimensional Design	3	_____
ART	180	Drawing I	3	_____
CIS	207	Computer Applications for Business	3	_____
ENG	101	English Composition I <sup>1</sup> OR ENG 113 Professional Technical Writing <sup>1</sup>	3	_____
GRD	110	Graphics Design I	5	_____
			18	

### NOTES AND INFORMATION

<sup>1</sup> Requires a grade of "C" or higher.

<sup>2</sup> Electives to choose from: ART 205, ART 256, ART 297, BUS 110, BUS 235, BUS 222, CIS 105, CIS 208

The Graphic Design AAS Degree (GRD 2004) is the parent program to:  
 • Graphics Design Certificate Program (GRD 0005)

The minimum general education component for the Associate in Applied Science degree requires satisfactory completion of at least 15 semester credits of coursework distributed over the disciplines of Communications, Mathematics, Arts and Humanities, Physical and Life Sciences, and Social and Behavioral Sciences. The curriculum guide for each Associate in Applied Science degree program will spell out the course requirements or options available for satisfying the general education component. With appropriate justification and in consultation with your academic advisor, a request to substitute a course for one recommended in this guide may be granted with the appropriate approvals from the Department Chair, Dean for Instruction and Vice-President for Instruction. However, no substitutions are allowed in Groups I-III (General Education Component; GECC) of the curriculum guide (see the Associate in Applied Science general degree requirements worksheet in the John A. Logan College Catalog).

Students planning to transfer and pursue a baccalaureate degree should, when given a choice, enroll in the general education course that is IAI GECC approved and articulated with participating Illinois institutions.

### FIRST YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
GRD	120	Graphics Design II	5	_____
IAI	Social and Behavioral Science Elective		3	_____
MAT	113	OR MAT 112 Introduction to Contemporary Mathematics OR MAT 100 Mathematics for Applied Technologies OR MAT 119 OR MAT 120 Elementary Statistics	3	_____
COM	115	Speech OR COM 116 Interpersonal Communication	3 14	_____

### FIRST YEAR – SUMMER SEMESTER (OPTIONAL-NOT REQUIRED)

Dept.	No.		Hrs.	Grade
INT	101	Internship	1-3 3	_____

**Career Opportunities:** The program will prepare graduates to enter the profession of Graphic Design in print shops, magazine companies, newspaper companies, television stations and other related industries. The needs for each company varies, but graphic designer's responsibilities may include the creation of graphics, photography, animation, page setup, layout, logo design, and web page design. The program is geared toward students desiring a career in graphics design, dislocated workers and incumbent workers desiring to upgrade their existing skills, as well as students with interest in artistic expression.

Beginning salaries are comparable to other technical careers with the possibility of advancement within a particular company. A job placement service is provided for all John A. Logan College graduates to help students find employment.

### SECOND YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
ART	220	History of Art I OR ART 291 History of Photography	3	_____
ART	290	Computer Art I	3	_____
ART	296	Photography I	3	_____
		Elective <sup>2</sup>	3	_____
GRD	210	Graphics Design III	5	_____
			17	

### SECOND YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
ART	292	Computer Art II	3	_____
ART	293	Art Preparation and Portfolio	1	_____
		Elective <sup>2</sup>	3	_____
GRD	220	Animation	3	_____
GRD	230	Video Production	3	_____
MKT	224	Advertising	3	_____
			16	

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John A. Logan College

# Associate in Applied Science Toward a Degree in Heating and Air Conditioning

Career Curriculum HAC0095  
Minimum Hours: 71  
Major Code: 1.2 470201  
Effective Date: Fall 2021

## FIRST YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
HAC	102	Residential Electrical Wiring	4	_____
HAC	121	Heating I	4	_____
HAC	140	Weatherization	3	_____
MAT	113	Introduction to Contemporary Mathematics OR MAT 100 Mathematics for Applied Technologies OR MAT 120 Elementary Statistics	3	_____
ORI	100	College 101	1	_____
WEL	120	Oxyfuel Welding, Cutting and Brazing	3	_____
			18	

## NOTES AND INFORMATION

<u>Fall Only Courses:</u>		<u>Spring Only Courses:</u>	
HAC 102	HAC 105	HAC 142	
HAC 106	HAC 107	HAC 207	
HAC 121	HAC 122	HAC 224	
HAC 132	HAC 131	HAC 279	
HAC 140			
HAC 222			
HAC 240			

<sup>1</sup> Requires a grade of "C" or higher.

<sup>2</sup> Although this class is recommended, it is not required for graduation from this program and therefore is ineligible for Title IV financial aid funding.

## FIRST YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
ENG	101	English Composition I <sup>1</sup> OR ENG 113 Professional Technical Writing <sup>1</sup>	3	_____
HAC	105	Basic Sheet Metal Layout	3	_____
HAC	107	Electrical Controls and Circuitry	3	_____
HAC	122	Heating II	4	_____
HAC	131	Refrigeration & Air Conditioning I	4	_____
			17	

The Heating and Air Conditioning Degree Program (HAC0095) is the parent program to:

- Heating and Air Conditioning Certificate Program (HAC 0006)

The minimum general education component for the Associate in Applied Science degree requires satisfactory completion of at least 15 semester credits of coursework distributed over the disciplines of Communications, Mathematics, Arts and Humanities, Physical and Life Sciences, and Social and Behavioral Sciences. The curriculum guide for each Associate in Applied Science degree program will spell out the course requirements or options available for satisfying the general education component. With appropriate justification and in consultation with your academic advisor, a request to substitute a course for one recommended in this guide may be granted with the appropriate approvals from the Department Chair, Dean for Instruction and Vice-President for Instruction. However, no substitutions are allowed in Groups I-III (General Education Component; GECC) of the curriculum guide (see the Associate in Applied Science general degree requirements worksheet in the John A. Logan College Catalog).

Students planning to transfer and pursue a baccalaureate degree should, when given a choice, enroll in the general education course that is IAI GECC approved and articulated with participating Illinois institutions.

**Additional Information:** This program prepares students for careers in the heating and air conditioning industry. The curriculum provides theory as well as sufficient laboratory experience to prepare graduates for immediate employment. Students will be trained for competency in installing, operating, troubleshooting, and maintaining all types of environmental control equipment. The graduate will receive an AAS degree.

All students registered for heating and air conditioning classes will be required to furnish a basic tool set. The basic tool set will be necessary by the beginning of the fifth week of the semester. The set includes the following:

<b>Nutdrivers</b>	<b>Pliers</b>	<b>Screwdrivers</b>
• Nutdriver ND5 ¼"	• 7" Diagonal Pliers	• Phillips Stubby Screwdriver
• Nutdriver ND7 5/16"	• 7 ½" Longnose Pliers	• #2 x 4" Phillips Screwdriver
• Manifold Gauge Set	• 6" Slip Joint Pliers	• Flat Stubby Screwdriver
	• ARC Joint 9-1/2" Pliers	• 3/16" x 6" Slotted Screwdriver
		• 5/16" x 6" Slotted

## FIRST YEAR – SUMMER SEMESTER (OPTIONAL)

Dept.	No.		Hrs.	Grade
INT	101	Internship <sup>2</sup>	1-3	_____
			1-3	

## SECOND YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
CMG	107	Construction Document Interpretation	3	_____
HAC	106	Advanced Sheet Metal Layout	2	_____
HAC	132	Refrigeration and Air Conditioning II	4	_____
HAC	222	Advanced Heating Systems	3	_____
HAC	240	Installation of HVAC Systems	3	_____
IAI Social & Behavioral Science Elective			3	_____
			18	

## SECOND YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
HAC	142	Commercial Refrigeration	4	_____
HAC	207	Advanced Controls and Circuitry	3	_____
HAC	224	Geothermal Systems	3	_____
HAC	279	ICE Testing	2	_____
IAI Physical/Life Science OR IAI Humanities/Fine Arts Elective			3	_____
COM	115	Speech OR COM 116 Interpersonal Communication	3	_____
			18	

**Sockets**

- 1/4" Socket Set
- 3/8" Socket Set

**Wrenches**

- 6" Adjustable Wrench
- 8" Adjustable Wrench
- 10" Adjustable Wrench
- 12" Adjustable Wrench
- Hex Wrench Set
- Service Valve Wrench

**Additional Tools**

- Wire Strippers
- AW Sperry SPR Clamp-On Amp Meter
- UEI M110A Multimeter
- Pocket Thermometer
- Inspection Mirror
- Sling Psychrometer
- Red and Green Tin Snips
- Tinners Hammer
- Dividers

*Note:* Costs of supplies vary by supplier. Tools may be purchased at Sears, Snap-On, True Value, etc.

**The Heating & Air Condition Program is accredited by the:**

**Partnership of Air Conditioning, Heating, and Refrigeration Accreditors (PAHRA)**

2111 Wilson Blvd., Suite 500  
Arlington, VA 22201-3001

**Career Opportunities:** Technician, installer, maintenance, service manager, self-employment.

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**FIRST YEAR - FALL SEMESTER**

<u>Dept.</u>	<u>No.</u>		<u>Hrs.</u>
ORI	100	College 101	1
CMG	110	Structural Framing I	4
ELT	102	Basic Electricity and Wiring	4
HAC	121	Heating I	4
DRT	185	Computer Graphics I	2
WEL	121	SMAW (STICK) Plate Welding I	<u>3</u>
			18

**FIRST YEAR - SPRING SEMESTER**

<u>Dept.</u>	<u>No.</u>		<u>Hrs.</u>
COM	115	Speech OR COM 116 Interpersonal Communication	3
ELT	150	Applied Solid State Electronics	3
HAC	131	Refrigeration and Air Conditioning I	4
IDM	120	Safety and Environmental Management	2
IAI		Social and Behavioral Science Elective	<u>3</u>
			15

**SECOND YEAR - FALL SEMESTER**

<u>Dept.</u>	<u>No.</u>		<u>Hrs.</u>
CMG	107	Construction Document Interpretation	3
IDM	210	Hydraulics & Pneumatics	3
MAC	200	Machine Tool Lab	4
MFT	103	Industrial Robots & PLCs	3
WEL	122	GMAW (MIG) Plate Welding	<u>3</u>
			16

**SECOND YEAR - SPRING SEMESTER**

<u>Dept.</u>	<u>No.</u>		<u>Hrs.</u>
MAT	113	OR MAT 112 Introduction to Contemporary Mathematics or MAT 100 Mathematics for Applied Technologies or MAT 119 or MAT 120 Elementary Statistics	3
ELT	224	Power Distribution and Motors	3
ENG	101	English Composition I <sup>1</sup> OR ENG 113 Professional Technical Writing <sup>1</sup>	3
HAC	107	Electrical Controls and Circuitry	3
MFT	201	PLC Manufacturing Systems	3
IAI		Physical/Life Interpersonal Communication Elective	<u>3-5</u> 18-20

**SECOND YEAR - SUMMER SEMESTER - OPTIONAL**

<u>Dept.</u>	<u>No.</u>		<u>Hrs.</u>
INT	101	Internship <sup>2</sup> OR PSY 110 College Success and Career Planning <sup>2</sup>	1-3

**NOTES AND INFORMATION**

<u>Fall Only Courses:</u>	<u>Spring Only Courses:</u>
ELT 102 IDM 210	ELT 150 IDM 120
HAC 121 MFT 103	ELT 224 MFT 201
	HAC 131

<sup>1</sup>Requires a grade of "C" or higher.

<sup>2</sup>Although this class is recommended, it is not required for graduation from this program and therefore is ineligible for Title IV financial aid funding.

The minimum general education component for the Associate in Applied Science degree requires satisfactory completion of at least 15 semester credits of coursework distributed over the disciplines of Communications, Mathematics, Arts and Humanities, Physical and Life Sciences, and Social and Behavioral Sciences. The curriculum guide for each Associate in Applied Science degree program will spell out the course requirements or options available for satisfying the general education component. With appropriate justification and in consultation with your academic advisor, a request to substitute a course for one recommended in this guide may be granted with the appropriate approvals from the Department Chair, Dean for Instruction and Vice-President for Instruction. However, no substitutions are allowed in Groups I-III (General Education Component; GECC) of the curriculum guide (see the Associate in Applied Science general degree requirements worksheet in the John A. Logan College Catalog).

Students planning to transfer and pursue a baccalaureate degree should, when given a choice, enroll in the general education course that is IAI GECC approved and articulated with participating Illinois institutions.

All students in this program will be required to furnish a basic tool set. The set includes the following:

**Pliers**  
Needle Nose Pliers  
Side Cutter (Diagonal) Pliers  
Lineman's Pliers

**Additional Tools**  
Pocket Knife for Stripping Cable (Lock-Back) or Cable Stripper  
Wire Strippers  
Digital Multimeter (DMM) - must measure volts, ohms, and milli-amps

*Note:* Cost varies from different suppliers.

**Career Opportunities:** Industrial Maintenance/repair position, facilities maintenance

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John A. Logan College

# Associate in Applied Science Interpreter Preparation

Career Curriculum IPP0093  
Minimum Hours: 70  
Major Code: 1.2 161603  
Effective Date: Fall 2020

## FIRST YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
ORI	100	College 101	1	_____
ENG	101	English Composition I <sup>2</sup>	3	_____
ASL	141	American Sign Language (ASL I) <sup>1</sup>	4	_____
IPP	111	Non-Verbal Language <sup>1</sup>	3	_____
ANT	216	Cultural Anthropology OR SOC 221 Race and Ethnicity	<u>3</u>	_____
			14	

## FIRST YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
BIO	100	Biology for Non-Science Majors	4	_____
ASL	142	American Sign Language (ASL II) <sup>1</sup>	4	_____
IPP	151	Deaf Studies/Culture <sup>1</sup>	3	_____
IPP	201	Introduction to Interpreting <sup>1</sup>	4	_____
IPP	240	Fingerspelling and Numbers <sup>1</sup>	<u>3</u>	_____
			18	

## FIRST YEAR – SUMMER SEMESTER

Dept.	No.		Hrs.	Grade
COM	115	Speech OR COM 116 Interpersonal Communication	<u>3</u>	_____
			3	

## SECOND YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
ASL	143	American Sign Language (ASL III) <sup>1</sup>	5	_____
IPP	211	ASL Linguistics I <sup>1</sup>	3	_____
IPP	222	Interpreting ASL-English <sup>1</sup>	4	_____
IPP	231	Interpreting I <sup>1</sup>	4	_____
IPP	249	Field Experience I <sup>1</sup>	<u>3</u>	_____
			19	

## SECOND YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
IPP	212	ASL Linguistics II <sup>1</sup>	3	_____
IPP	223	Introduction to Transliterating <sup>1</sup>	3	_____
IPP	250	Field Experience II <sup>1</sup>	3	_____
IPP	251	Interpreting II <sup>1</sup>	4	_____
MAT	113	OR MAT 112 Introduction to Contemporary Mathematics <sup>3</sup> OR BUS 111 Business Mathematics	<u>3</u>	_____
			16	

## NOTES AND INFORMATION:

<sup>1</sup>All Program majors are required to have received a grade of "C" or higher in **ALL ASL and IPP** courses to continue in major.

<sup>2</sup> ENG 101 requires a grade of "C" or higher.

<sup>3</sup> Students transferring to SIU-C should take MAT 113 or MAT 112.

The minimum general education component for the Associate in Applied Science degree requires satisfactory completion of at least 15 semester credits of coursework distributed over the disciplines of Communications, Mathematics, Arts and Humanities, Physical and Life Sciences, and Social and Behavioral Sciences. The curriculum guide for each Associate in Applied Science degree program will spell out the course requirements or options available for satisfying the general education component. With appropriate justification and in consultation with your academic advisor, a request to substitute a course for one recommended in this guide may be granted with the appropriate approvals from the Department Chair, Dean for Instruction and Vice-President for Instruction. However, no substitutions are allowed in Groups I-III (General Education Component; GECC) of the curriculum guide (see the Associate in Applied Science general degree requirements worksheet in the John A. Logan College Catalog).

Students planning to transfer and pursue a baccalaureate degree should, when given a choice, enroll in the general education course that is IAI GECC approved and articulated with participating Illinois institutions.

**Career Opportunities:** Graduates of this program could work as interpreters in the community, in colleges, Vocational Rehabilitation interpreting for employment training and job coaching, recreational activities and entertainment, and other places that interpreters are needed such as the public school system, they can tutor deaf and hard of hearing children, and provide other support services for deaf and hard of hearing children.

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John A. Logan College

# Associate in Applied Science

Toward a Degree in

## Mechatronics Engineering Technology

Career Curriculum 00ELT3012

Minimum Hours: 68

Major Code: 1.2 150612C

Effective Date: Fall 2021

### FIRST YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
ORI	100	College 101	1	_____
ELT	102	Basic Electricity and Wiring	4	_____
ELT	111	Digital Electronics I	3	_____
MAT	111	Pre-Calculus	5	_____
MFT	103	Industrial Robots & PLCs	3	_____
ENG	101	English Composition I <sup>2</sup> OR ENG 113 Professional Technical Writing <sup>2</sup>	3 19	_____

### NOTES AND INFORMATION

<sup>1</sup>Although this class is recommended, it is not required for graduation from this program and therefore is ineligible for Title IV financial aid funding.

<sup>2</sup> Requires a grade of "C" or higher.

Fall only courses:                      Spring only courses:

ELT 102	ELT 214	ELT 103	IDM 120
ELT 111		ELT 104	MFT 201
ELT 151		ELT 150	ELT 218
IDM 210		ELT 224	
MFT 103		ELT 220	

### FIRST YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
ELT	103	Applied DC/AC Circuits	4	_____
ELT	104	Introduction to VFDs	2	_____
ELT	112	Digital Electronics II	3	_____
ELT	150	Applied Solid State Electronics	3	_____
MFT	201	PLC Manufacturing Systems	3	_____
PSY	132	General Psychology	3 18	_____

The Industrial Maintenance Engineering AAS Degree (00ELT3012) is an ICCB approved extension of the Electronics Technology AAS Degree (00ELT3010) and is the parent program to:

- Industrial PLC Systems Certificate (00ELT3013)

The minimum general education component for the Associate in Applied Science degree requires satisfactory completion of at least 15 semester credits of coursework distributed over the disciplines of Communications, Mathematics, Arts and Humanities, Physical and Life Sciences, and Social and Behavioral Sciences. The curriculum guide for each Associate in Applied Science degree program will spell out the course requirements or options available for satisfying the general education component. With appropriate justification and in consultation with your academic advisor, a request to substitute a course for one recommended in this guide may be granted with the appropriate approvals from the Department Chair, Dean for Instruction and Vice-President for Instruction. However, no substitutions are allowed in Groups I-III (General Education Component; GECC) of the curriculum guide (see the Associate in Applied Science general degree requirements worksheet in the John A. Logan College Catalog).

Students planning to transfer and pursue a baccalaureate degree should, when given a choice, enroll in the general education course that is IAI GECC approved and articulated with participating Illinois institutions.

### OPTIONAL

#### FIRST YEAR – SUMMER SEMESTER

Dept.	No.		Hrs.	Grade
INT	101	Internship <sup>1</sup>	1-4	_____

### SECOND YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
ELT	151	Applied Solid State Circuits	3	_____
ELT	214	A+ Preparation IT Technician	3	_____
IDM	210	Hydraulics & Pneumatics	3	_____
PHY	155	College Physics I	5 14	_____

**Career Opportunities:** Industrial Maintenance Engineering technicians solve technical problems in research and development, manufacturing, sales, construction, inspection, and maintenance. In manufacturing, the Industrial Maintenance Engineering technician many assist engineers and scientists, especially in research and development. Duties many include quality control, inspecting products and processes, conducting tests, repairing and maintaining of industrial equipment or collecting data.

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### SECOND YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
ELT	218	Introduction to Network Technologies	3	_____
ELT	220	Linear Integrated Circuits	3	_____
ELT	224	Power Distribution and Motors	3	_____
IDM	120	Safety & Environmental Management	2	_____
MAC	180	Blue Print Reading	3	_____
COM	115	Speech OR COM 116 Interpersonal Communication	3 17	_____



# Associate in Applied Science

Toward a Degree in

## Medical Administrative Assistant

Career Curriculum 00BUS0012  
 Minimum Hours: 61  
 Major Code: 1.2 510716C  
 Effective Date: Fall 2019

### FIRST YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
ORI	100	College 101	1	_____
BUS	116	Keyboarding I <sup>1</sup>	3	_____
BUS	135	Office Language Skills	3	_____
HIT	217	Medical Terminology	3	_____
BUS	255	Customer Service	3	_____
CIS	101	Introduction to Computers <sup>2</sup> OR CIS 207 Computer Applications for Business <sup>2</sup>	3 16	_____

### NOTES AND INFORMATION

<u>Fall Only Courses:</u>	<u>Spring Only Courses:</u>
BUS 255 HIT 206	BUS 270    CIS 105 BUS 280

<sup>1</sup> Proficiency exams are available for BUS 116 (requiring a production test as well as 40 wpm with no more than three errors on a three-minute straight-copy timing). See your advisor or the chairperson of the Business Department for information.

### FIRST YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
BUS	235	Business Communication	3	_____
BUS	270	Medical Office Procedures	3	_____
CIS	105	Current Operating Systems/Security	3	_____
ENG	101	English Composition I <sup>3</sup> OR ENG 113 Professional Technical Writing <sup>3</sup>	3	_____
MAT	113	OR MAT 112 Introduction to Contemporary Mathematics <sup>2</sup> OR BUS 111 Business Mathematics <sup>2</sup>	3 15	_____

<sup>2</sup> Students pursuing the Health Care Management Capstone Option at SIUC or a baccalaureate degree at another institution should take CIS 207, MAT 113 and SPE 115.

<sup>3</sup> Requires a grade of "C" or higher.

<sup>4</sup> Preferred IAI Humanities and Fine Arts electives: LIT 235, LIT 280, PHL 121, SPE 113

The Medical Administrative Assistant AAS Degree (00BUS0012) is the parent program to:

- Medical Clerk Certificate Program (00BUS0017)

### SECOND YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
ALH	101	Cardiopulmonary Resuscitation	1	_____
BUS	222	Legal/Social Environment of Business	3	_____
CIS	104	Spreadsheet Design	3	_____
CIS	110	Introduction to Word Processing	2	_____
HIT	206	Medical Insurance & Billing Procedures	3	_____
COM	115	Speech <sup>2</sup> OR COM 116 Interpersonal Communication <sup>2</sup>	3 15	_____

The minimum general education component for the Associate in Applied Science degree requires satisfactory completion of at least 15 semester credits of coursework distributed over the disciplines of Communications, Mathematics, Arts and Humanities, Physical and Life Sciences, and Social and Behavioral Sciences. The curriculum guide for each Associate in Applied Science degree program will spell out the course requirements or options available for satisfying the general education component. With appropriate justification and in consultation with your academic advisor, a request to substitute a course for one recommended in this guide may be granted with the appropriate approvals from the Department Chair, Dean for Instruction and Vice-President for Instruction. However, no substitutions are allowed in Groups I-III (General Education Component; GECC) of the curriculum guide (see the Associate in Applied Science general degree requirements worksheet in the John A. Logan College Catalog).

### SECOND YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
ACC	100	Business Accounting	3	_____
BUS	280	Computer Applications for the Medical Office	3	_____
CIS	120	Database Management	3	_____
ECO	201	Introduction to Macroeconomics OR ECO 202 Introduction to Microeconomics	3	_____
IAI Humanities OR IAI Fine Arts Elective <sup>4</sup>			3 15	_____

Students planning to transfer and pursue a baccalaureate degree should, when given a choice, enroll in the general education course that is IAI GECC approved and articulated with participating Illinois institutions.

**Additional Information:** This is a two-year program leading to an Associate in Applied Science degree. The Medical Administrative Assistant Program prepares students for office support positions in a doctor's office, clinic, hospital, or other health care-related organizations. Besides exposure to executive secretarial courses, participants gain experience with computer applications, medical terminology, CPR, medical office procedures, and The Medical Manager ©.

**Career Opportunities:** Positions as a medical office assistant, medical transcriptionist, and medical receptionist are available in hospitals, clinics, doctors' offices, health care organizations, insurance companies, health foundations, local industries, and state and federal government agencies.

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# Associate in Applied Science

Toward a Degree in

## Medical Laboratory Technology

Career Curriculum MLT0093  
Minimum Hours: 65  
Major Code: 1.2 511004  
Effective Date: Spring 2011

### FIRST YEAR – SUMMER SEMESTER

Dept.	No.		Hrs.	Grade
BIO	205	Human Anatomy and Physiology I	4 <u>4</u>	_____

### FIRST YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
BIO	206	Human Anatomy and Physiology II	4	_____
CHM	141	General, Organic, and Biochemistry I <sup>1</sup>	4	_____
Any IAI Math	OR MAT 108	College Algebra	3-4	_____
MLT	120	Introduction to Clinical Lab	<u>3</u>	_____
			14-15	

### FIRST YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
BIO	226	General Microbiology	4	_____
CHM	142	General, Organic, and Biochemistry II	4	_____
MLT	121	Serology	1.5	_____
MLT	122	Clinical Microscopy	1.5	_____
MLT	123	Phlebotomy	<u>3</u>	_____
			14	

### SECOND YEAR – SUMMER SEMESTER

Dept.	No.		Hrs.	Grade
ENG	101	English Composition I <sup>2</sup>	3	_____
COM	115	Speech	<u>3</u>	_____
			6	

### SECOND YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
MLT	223	Immunohematology (1st 10 1/2 weeks)	4	_____
MLT	228	Hematology and Hemostasis (1st 10 1/2 weeks)	5	_____
MLT	251	Clinical Rotation I (Last 6 1/2 weeks)	<u>3</u>	_____
			12	

### SECOND YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
MLT	225	Clinical Chemistry (1st 10 1/2 weeks)	4	_____
MLT	229	Applied Clinical Microbiology (1st 10 1/2 weeks)	5	_____
MLT	252	Clinical Rotation II (Last 6 1/2 weeks)	3	_____
PSY	132	General Psychology	<u>3</u>	_____
			1	

### NOTES AND INFORMATION

\*Retention in the MLT program requires that the MLT students earn a grade of "C" or better in all MLT and natural science courses (chemistry, microbiology, anatomy and physiology). The student must achieve a "C" average in the MLT curriculum in order to graduate. If a student fails an MLT or a required natural science course, the course must be repeated with a passing grade ("A", "B", or "C"). MLT courses are only offered once a year, so the student will have to wait to take courses until the prerequisite course has been completed with a passing grade. All courses must be taken in sequence as specified by course prerequisites unless permission is granted by the program director. "C" average = 2.0 on a 4- pt. scale; 3.0 on a 5-pt. scale.

Students wanting to transfer to SIU-C in Health Care Management must complete ACC 200, BUS 215, and MAT 108.

<sup>1</sup> Students must have consent of instructor if they take MAT 108 concurrently.

<sup>2</sup> Requires a grade of "C" or higher.

The minimum general education component for the Associate in Applied Science degree requires satisfactory completion of at least 15 semester credits of coursework distributed over the disciplines of Communications, Mathematics, Arts and Humanities, Physical and Life Sciences, and Social and Behavioral Sciences. The curriculum guide for each Associate in Applied Science degree program will spell out the course requirements or options available for satisfying the general education component. With appropriate justification and in consultation with your academic advisor, a request to substitute a course for one recommended in this guide may be granted with the appropriate approvals from the Department Chair, Dean for Instruction and Vice-President for Instruction. However, no substitutions are allowed in Groups I-III (General Education Component; GECC) of the curriculum guide (see the Associate in Applied Science general degree requirements worksheet in the John A. Logan College Catalog).

Students planning to transfer and pursue a baccalaureate degree should, when given a choice, enroll in the general education course that is IAI GECC approved and articulated with participating Illinois institutions.

#### Additional Information:

**The Profession.** The Medical Laboratory Technician (MLT) is employed in clinical laboratories of hospitals, clinics, physician's offices, and other health care facilities performing varied laboratory procedures and diagnostic tests. Laboratory tests are performed on body fluids such as blood, which is obtained by the technician through venipuncture. The MLT works as a bench technician under the direct supervision of a physician and/or medical technologist in the areas of blood banking, clinical chemistry, hematology, microbiology, urinalysis, coagulation, and immunology. The MLT is an integral part of the health care team focused on providing optimum patient care. The technician monitors quality control, performs maintenance on equipment and instruments, applies basic scientific principles to laboratory techniques and procedures, recognizes factors that affect procedures and results (taking corrective action when indicated), relates laboratory findings to common disease processes, and interacts with other health care personnel and patients.

**The Program.** The Medical Laboratory Technology (two-year) Associate Degree Program is offered through the Southern Illinois Collegiate Common Market (SICCM) and is a cooperative program with John A. Logan College, and Shawnee Community College. Each spring semester, students from each college are admitted to begin the program the following fall semester. Biology 205 should be taken prior to beginning the program.

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MLT Program admission is non-discriminatory, but certain personal and physical attributes are key to success in the profession. These may include the following: good general physical health, good vision (may be corrected), good color vision, and good manual dexterity.

Students are admitted to the MLT program and register for all courses through their home campus. General education courses are taken at the home campus, but MLT core courses are taught at various campuses, requiring students to travel an hour or more to classes. When registering for courses, students should consider travel time between their home campus and campuses where MLT core courses are scheduled. MLT courses may be taught in the day and/or evening based on part-time faculty availability. MLT courses of the second year are taught in the first 10 1/2 weeks of the semester. Courses are scheduled back-to-back to reduce student travel time. Clinical rotations are required in the second year of the program. These consist of two 16-day rotations during the last 6 1/2 weeks of the semester and are completed in labs of area hospitals. Students will be assigned to clinical sites as close to their home as possible, but students may have to travel considerable distances.

**The SICCM MLT Program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences, 5600 N. River Rd., Suite 720, Rosemont, IL 60018-5119, telephone: (773) 714-8880. Students who have completed the program requirements are eligible to take the national certification examination offered by the Board of Certification of the American Society of Clinical Pathologists (ASCP). The certified graduate may then use the title "MLT (ASCP)."**

**Career Opportunities:** Medical laboratory technician.

**Major Employers:** Clinical laboratories of hospitals, clinics, physician's offices, and other health care facilities performing laboratory procedures and diagnostic tests

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John A. Logan College

# Associate in Applied Science Associate Degree Nursing (ADN)\* Part-Time Program

Career Curriculum ADN15  
Minimum Hours: 63-63.5  
Major Code: 1.2 513801  
Effective Date: Fall 2019

## FIRST YEAR – SUMMER SEMESTER

Dept.	No.		Hrs.	Grade
ORI	212	ADN Orientation	.5	_____
ALH	101	Cardiopulmonary Resuscitation <u>OR</u> ALH 102 CPR Recertification <sup>1</sup>	.5-1	_____
CHM	141	General, Organic, and Biochemistry I <sup>2*</sup>	<u>4</u> 5-5.5	_____

## FIRST YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
ADN	201	Health Assessment and Nursing Care	4	_____
ADN	202	Nursing Care of Adult I	<u>7</u> 11	_____

## FIRST YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
ADN	213	Nursing Today & Tomorrow	2	_____
ADN	218	Mental Health Issues in Nursing	3	_____
ADN	230	Advanced Pharmacology I	<u>1.5</u> 6.5	_____

## SECOND YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
ADN	221	Family Nursing	5	_____
BIO	226	General Microbiology <sup>2</sup>	<u>4</u> 9	_____

## SECOND YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
ADN	220	Nursing Care of Adult II	7	_____
ADN	231	Advanced Pharmacology II	<u>1.5</u> 8.5	_____

## NOTES AND INFORMATION

\* Students must complete either CHM 141 or BIO 226 PRIOR to starting the First-Year-Fall Semester on this guide. Students must also maintain "C" or higher in all courses. All students must complete the practical nursing curriculum. All PN courses must be completed with a "C" or better prior to beginning ADN courses. It is strongly recommended that all ADN general education courses are completed prior to beginning the ADN program. Active and unencumbered Illinois LPN license is required prior to entering the first year, fall semester classes. The following courses are included in the minimum hours of this degree:

Course	Credit Hours
BIO 205 Human Anatomy and Physiology I	4
BIO 206 Human Anatomy and Physiology II	4
PNE 101 Fundamentals of Nursing	3
PNE 105 Nursing Throughout the Life Cycle	1
PNE 161 Pharmacology in Nursing	2
PNE 171 Pharmacology in Nursing II	2
PNE 204 Adult Nursing I	2
PNE 206 Adult Nursing II	2
PNE 209 I.V. Therapy (or comparable I.V. course)	.5
PNE 207 Medical/Surgical Clinic	3
PNE 208 Mental Health Nursing	<u>1.0</u>
<b>TOTAL CREDIT HOURS</b>	<b>24.5</b>

ATI scores at Level 2 are required before a course grade will be issued. ATI National Average Score must be obtained on RN Predictor prior to exiting the program. (2 attempts maximum)

A national licensure examination test must be passed in order to be employed in this career.

<sup>1</sup> Students must be certified in CPR annually before starting Clinical Rotations.

<sup>2</sup> Courses are not offered every semester and must be taken the semester indicated or before.

\*Students interested in BSN should consider taking MAT 120 Elementary Statistics.

The minimum general education component for the Associate in Applied Science degree requires satisfactory completion of at least 15 semester credits of coursework distributed over the disciplines of Communications, Mathematics, Arts and Humanities, Physical and Life Sciences, and Social and Behavioral Sciences. The curriculum guide for each Associate in Applied Science degree program will spell out the course requirements or options available for satisfying the general education component. With appropriate justification and in consultation with your academic advisor, a request to substitute a course for one recommended in this guide may be granted with the appropriate approvals from the Department Chair or Director of Nursing, Dean for Academic Affairs and Vice-President for Instructional Services. However, no substitutions are allowed in Groups I-III (General Education Component; GECC) of the curriculum guide (see the Associate in Applied Science general degree requirements worksheet in the John A. Logan College Catalog).

Students planning to transfer and pursue a baccalaureate degree should, when given a choice, enroll in the general education course that is IAI GECC approved and articulated with participating Illinois institutions.

**Additional Information:** The Associate Degree Nursing Program provides practical nurses the opportunity to achieve an associate degree in nursing and take the NCLEX-RN Exam; builds on the practical nurse program of education in communication skills, nursing process, anatomy, physiology, pathophysiology, pharmacology, and basic nursing skills; provides appropriate educational

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opportunities to prepare the graduate to adhere to standards and scope of practice as set forth in the Illinois Nurse Practice Act of 2017 and American Nursing Association, and creates an environment that encourages lifelong learning and professional development.

This unique program is designed to prepare the student for the practice of professional nursing as defined in the Illinois Nurse Practice Act of 2017 and meets the requirements for schools approved for associate degree nursing by the Illinois Department of Financial and Professional Regulation (IDFPR).

The applicant should contact the Testing Services Office at the College. The Associate Degree Nursing Program entry packet can be located at the following link <http://www.jalc.edu/admissions/restricted-allied-health-admission>. The steps to be followed are specified in the packet.

In addition to completing a College application, the applicant must be able to do the following:

- provide proof of successful completion of an approved school of practical nursing
- successfully complete the associate degree nursing pre-entrance examination and the ASSET Test
- possess an unencumbered active Illinois LPN license

The selection procedures are listed in the admissions packet.

The ADN program goals follow the American Nurses Association Scope & Standards of Practice (Third Edition) for a Registered Professional Nurse.

The goals of the ADN program are to prepare entry level RN's:

1. To collect pertinent data in a systematic, ongoing assessment process with compassion and respect for the individuals dignity, worth, and unique attributes.
2. To analyze assessment data to determine actual or potential diagnoses, problems and issues.
3. To identify expected outcomes for an individualized plan.
4. To develop or review a plan to help an individual attain expected, measurable outcomes.
5. To implement the identified plan.
6. To coordinate care delivery.
7. To employ strategies to promote health and a safe environment.
8. To practice ethically.
9. To practice in a manner that is congruent with cultural diversity and inclusion principles.
10. To communicate effectively.
11. To collaborate with peers, faculty and healthcare team.
12. To lead within the professional practice setting and the profession.
13. To seek knowledge and competence that reflects nursing practice.
14. To integrate evidence-based practice and research.
15. To contribute to quality nursing practice.
16. To evaluate one's own professional practice, as well as, others' nursing practice.
17. To utilize appropriate resources to plan, provide, and sustain evidence-based nursing services that are safe, effective, and fiscally responsible.

Upon satisfactory completion of the program, the student will be eligible to take the National Council Licensure Examination for Registered Nurses (NCLEX-RN).

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# Associate in Applied Science Nursing-ADN (Hybrid Online)\*\*

Career Curriculum ADN 16  
Minimum Hours: 65-65.5  
Major Code: 1.2 513801  
Effective Date: Spring 2023

## FIRST YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
ORI	212	ADN Orientation	.5	_____
ADN	203	Intro to Conceptual Framework <sup>1</sup>	3	_____
ADN	206	Cardiovascular Nursing Interventions	3	_____
ADN	212	Psychiatric Nursing Interventions	2	_____
			8.5	

## FIRST YEAR – SUMMER SEMESTER

Dept.	No.		Hrs.	Grade
ADN	205	Respiratory Nursing Intervention	3	_____
ADN	224	Obstetrical Nursing Interventions	2	_____
			5	

## FIRST YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
ADN	207	Metabolic/Endocrine Nursing Interventions	3	_____
ADN	210	GI/GU Nursing Interventions	3	_____
ADN	226	Neuro/Sensory Nursing Interventions	3	_____
ADN	230	Advanced Pharmacology I	1.5	_____
			10.5	

## SECOND YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
ADN	223	Pediatric Nursing Interventions	2	_____
ADN	225	Ortho/Derm Nursing Interventions	3	_____
ADN	228	Nursing Leadership Today & Tomorrow	3	_____
ADN	231	Advanced Pharmacology II	1.5	_____
			9.5	

## NOTES AND INFORMATION:

The following courses are prerequisites for this degree:

Course	Credit Hours
ALH 101 Cardiopulmonary Resuscitation OR ALH 102 CPR Recertification <sup>1</sup>	.5-1.0
BIO 226 General Microbiology	4.0
CHM 141 General, Organic, and Biochemistry I	4.0
<b>8.5-9.0</b>	

\*\*Students must maintain "C" or higher in all courses. All students must complete the practical nursing curriculum and be listed as good standing as an LPN on IDFPR. All PN and ADN general education courses must be completed with a "C" or better prior to beginning ADN Hybrid Online courses. The following courses are included in the minimum hours of this degree:

Course	Credit Hours
BIO 205 Human Anatomy and Physiology I	4
BIO 206 Human Anatomy and Physiology II	4
PNE 101 Fundamentals of Nursing	3
PNE 105 Nursing Throughout the Life Cycle	1
PNE 161 Pharmacology in Nursing	2
PNE 171 Pharmacology in Nursing II	2
PNE 204 Adult Nursing I	2
PNE 206 Adult Nursing II	2
PNE 207 Medical/Surgical Clinic	3
PNE 208 Mental Health Nursing	1
PNE 209 I.V. Therapy (or comparable I.V. course)	.5
<b>TOTAL CREDIT HOURS</b>	<b>24.5</b>

ATI scores at Level 2 are required before a course grade will be issued. ATI National Average Score must be obtained on RN Predictor prior to exiting the program. (2 attempts maximum)

A comprehensive NCLEX online virtual review is required after the last class of the program.

Prior to acceptance an online general education course or Practical Nursing course must be successfully completed.

A national licensure examination test must be passed in order to be employed in this career.

<sup>1</sup> Students must be certified in CPR annually (ALH 102 CPR Recertification) before starting Clinical Rotations.

The minimum general education component for the Associate in Applied Science degree requires satisfactory completion of at least 15 semester credits of coursework distributed over the disciplines of Communications, Mathematics, Arts and Humanities, Physical and Life Sciences, and Social and Behavioral Sciences. The curriculum guide for each Associate in Applied Science degree program will spell out the course requirements or options available for satisfying the general education component. With appropriate justification and in consultation with your academic advisor, a request to substitute a course for one recommended in this guide may be granted with the appropriate approvals from the Department Chair, Dean for Instruction and Vice-President for Instruction. However, no substitutions are allowed in Groups I-III (General Education Component; GECC) of the curriculum guide (see the Associate in Applied Science general degree requirements worksheet in the John A. Logan College Catalog).

Students planning to transfer and pursue a baccalaureate degree should, when given a choice, enroll in the general education course that is IAI GECC approved and articulated with participating Illinois institutions.

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**Additional Information:** The Associate Degree Nursing Program provides practical nurses the opportunity to achieve an associate degree in nursing and take the NCLEX-RN Exam; builds on the practical nurse program of education in communication skills, nursing process, anatomy, physiology, pathophysiology, nutrition, pharmacology, psychology, and basic nursing skills; provides appropriate educational opportunities to prepare the graduate to adhere to standards and scope of practice as set forth in the Illinois Nursing Act of 2000; and creates an environment that encourages lifelong learning and professional development.

This unique program is designed to prepare the student for the practice of professional nursing as defined in the Illinois Nursing Act and meets the requirements for schools approved for associate degree nursing by the Illinois Department of Professional Regulation.

The applicant should contact the Assessment Office at the College to request an admissions packet for the Associate Degree Nursing Program. The steps to be followed are specified in the packet.

In addition to completing a College application, the applicant must be able to do the following:

- provide proof of successful completion of an approved school of practical nursing
- successfully complete the associate degree nursing pre-entrance examination and the ASSET Test
- successfully demonstrate knowledge and abilities of fundamental nursing skills
- provide proof of sound health to practice nursing; and be eligible for nursing licensure in Illinois.

The selection procedures are listed in the admissions packet.

The goals of the ADN program are as follows:

1. To prepare nurses who possess the competencies defined by the ADN Council of the NLN and adhere to the standards and scope of practice set forth in the Illinois Nursing Act of 2007 and American Nursing Association Standards.
2. To support and encourage professional continuing education.
3. To actively maintain and pursue articulation with baccalaureate-level nursing programs.
4. To collaborate with district and regional health care providers to identify entry level employment skills required of ADN graduates.
5. To work with all College departments to provide a high-quality education.
6. To prepare graduates to live and work in a globally interdependent and multicultural society.
7. To maintain faculty, physical facilities, equipment, and clinical facility contracts conducive to a positive learning environment.
8. To serve as a resource to nursing professionals in the area.

Upon satisfactory completion of the program, the student will be eligible to take the National Council Licensure Examination for Registered Nurses (NCLEX-RN).

**Career Opportunities:** Specializations include obstetrics, surgery, intensive care unit, medical/surgical, emergency room, pediatrics, dialysis, case management, public health, insurance, office nursing and administration, home health.

*John A. Logan College reserves the right to modify this curriculum guide as needed. Please verify with your academic advisor the accuracy and time lines of this document.*



John A. Logan College

# Associate in Applied Science Toward a Degree in Occupational Therapy Assistant

Career Curriculum OTA0094  
Minimum Hours: 70  
Major Code: 1.2 510803C  
Effective Date: Spring 2015

## FIRST YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
HIT	217	Medical Terminology	3	_____
ENG	101	English Composition I	3	_____
OTA	110	Clinical Observation	2	_____
OTA	130	Introduction to Occupational Therapy	2	_____
OTA	131	Disease and Impact on Occupation	3	_____
OTA	132	Occupational Development	1	_____
OTA	210	Occupational Therapy Theory I	4	_____
			18	

## FIRST YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
BIO	206	Human Anatomy and Physiology II	4	_____
OTA	112	Activities of Daily Living	3	_____
OTA	120	Occupational Therapeutic Media	3	_____
OTA	122	Occupational Therapy Group Process	2	_____
OTA	133	Clinical Rotation I	1	_____
OTA	134	OT in Physical Disabilities	3	_____
PSY	132	General Psychology	3	_____
			19	

## FIRST YEAR – SUMMER SEMESTER

Dept.	No.		Hrs.	Grade
MAT	120	OR MAT 119 Elementary Statistics OR MAT 104 Mathematics for Allied Health	3	_____
COM	115	Speech	3	_____
			6	

## SECOND YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
OTA	200	Psychosocial Therapy and Practice	3	_____
OTA	205	Occupational Therapy in Pediatrics	4	_____
OTA	230	Clinical Rotation II	2	_____
OTA	231	Occupational Therapy Theory II	1.5	_____
OTA	232	Aging and Impact on Occupation	1.5	_____
PSY	262	Child Psychology	3	_____
			15	

## SECOND YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
OTA	217	Fieldwork Experience <sup>1</sup> (Class meets 8 weeks)	4.5	_____
OTA	218	Fieldwork Experience II <sup>1</sup> (Class meets 8 weeks)	4.5	_____
OTA	250	Occupational Therapy Administration	3	_____
			12	

## NOTES AND INFORMATION

\* BIO 205 - Human Anatomy and Physiology I is a prerequisite for this program. Students must maintain "C" overall average plus "C" or better in all OTA classes and all required general education classes.

<sup>1</sup> Must be completed within 18 months of academic coursework.

The minimum general education component for the Associate in Applied Science degree requires satisfactory completion of at least 15 semester credits of coursework distributed over the disciplines of Communications, Mathematics, Arts and Humanities, Physical and Life Sciences, and Social and Behavioral Sciences. The curriculum guide for each Associate in Applied Science degree program will spell out the course requirements or options available for satisfying the general education component. With appropriate justification and in consultation with your academic advisor, a request to substitute a course for one recommended in this guide may be granted with the appropriate approvals from the Department Chair, Dean for Instruction and Vice-President for Instruction. However, no substitutions are allowed in Groups I-III (General Education Component; GECC) of the curriculum guide (see the Associate in Applied Science general degree requirements worksheet in the John A. Logan College Catalog).

Students planning to transfer and pursue a baccalaureate degree should, when given a choice, enroll in the general education course that is IAI GECC approved and articulated with participating Illinois institutions.

### Additional Information:

The OTA courses have both lecture and hands-on laboratory components. Portions of the lecture section of some OTA courses are web-based. During the program, students will develop entry-level competencies necessary to provide services to persons of all ages who have functional loss due to physical, neurological, social/emotional, cognitive, or developmental disabilities.

The Occupational Therapy Program is accredited by the Accreditation Council for Occupational Therapy Education (ACOTE) of the **American Occupational Therapy Association (AOTA)**  
6116 Executive Boulevard  
Suite 200  
North Bethesda, MD 20852-4329  
301-652-6611

The profession tailors rehabilitation individually for each client. Through evaluation and treatment, it seeks to restore or improve function in occupational performance. Treatment is provided within the context of the client's life environments and relationships. Occupation may be defined as the ordinary things people do each day to work, to play, and to take care of themselves. Occupational therapy is based on the idea that our personal identity and feeling of value is closely tied to what we are able to do. We all choose many "occupational" roles that are important to us and make us excited to engage in life. When our function becomes impaired, we may lose both our independence and sense of self-worth.

The practice of OT utilizes the therapeutic use of purposeful and meaningful occupations in treatment, as well as focusing on these occupations as the goal of treatment. OT intervention may include restoration of performance abilities; instruction in compensatory techniques; adaptation of tasks, processes, or environments; disability prevention techniques; and health promotion strategies. Occupational therapy assistants, under the supervision of an occupational therapist, will work directly with persons to achieve a maximum level of independent living by developing the capacities that remain after disease, accident, or other disability.

OT serves a diverse population in a wide variety of settings such as hospitals; clinics; facilities for rehabilitation, extended, and long-term care; sheltered workshops; schools; camps; private homes; physicians' offices; community programs; and private practice.

#### Admission Requirements

1. Graduate from an approved high school, or demonstrate equivalent competency (G.E.D. examination).
2. Complete general admission procedures for John A. Logan College.
3. By March 31, file the following OTA application information with the Admissions & Records Office at John A. Logan College:
  - A. Completed OTA application form.
  - B. Health Occupations Aptitude Test results.
  - C. Official transcripts of previous college experience.
4. Achieve competitive level on a composite selection score for the College. The 12 top-scoring applicants are awarded admission. This score is based upon the Health Occupations Aptitude Examination--Revised test results and weighted grades for previous college coursework taken within, or transferring to, the occupational therapy assistant required curriculum.

#### Accreditation Status

The SICCM Occupational Therapy Assistant Program is accredited by the Accreditation Council for Occupational Therapy Education (ACOTE) of the American Occupational Therapy Association (AOTA), located at 4720 Montgomery Lane, P. O. Box 31220, Bethesda, MD 20824-1220. ACOTE's phone number c/o AOTA is 301-652-6611. Program graduates will qualify to sit for the National Board for Certification in Occupational Therapy, Inc. (NBCOT) national certification examination. This is a computer-delivered examination. Successful completion of this exam confers the title of Certified Occupational Therapy Assistant (COTA). Illinois and most states additionally require licensure to practice, usually basing this on the NBCOT exam results. A felony conviction may adversely affect ability to sit for the NBCOT exam and/or attain state licensure.

The Associate in Applied Science degree in occupational therapy assistant is offered at two community colleges through the Southern Illinois Collegiate Common Market. Twelve students are admitted from each college for an entering total of twenty-five. Admitted students take general education courses on their own campuses and OTA courses together in a central laboratory. After classes and the fieldwork internship are completed, they graduate at their entering college.

**Career Opportunities:** An occupational therapy assistant (OTA) provides services to persons of all ages who have functional loss due to physical, neurological, social/emotional, cognitive, or developmental disabilities.

*John A. Logan College reserves the right to modify this curriculum guide as needed. Please verify with your academic advisor the accuracy and time lines of this document.*



# Associate in Applied Science

## Toward a Degree in

# Small Business Management

Career Curriculum BUS2006  
 Minimum Hours: 61  
 Major Code: 1.2 520201  
 Effective Date: Fall 2019

### FIRST YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
ORI	100	College 101	1	_____
BUS	110	Introduction to Business	3	_____
ENG	101	English Composition I <sup>1</sup> OR ENG 113 Professional Technical Writing <sup>1</sup>	3	_____
MAT	113	OR MAT 112 Introduction to Contemporary Mathematics OR BUS 111 Business Mathematics	3	_____
MKT	113	Principles of Marketing	3	_____
MKT	130	Sales	3	_____
			16	

### NOTES AND INFORMATION

Fall Only Courses:		Spring Only Courses:	
BUS 255	MKT 130	ACC 105	MKT 224
MKT 113		CIS 105	
		MGT 112	
		MGT 228	

<sup>1</sup> Requires a grade of "C" or higher.

<sup>2</sup> Business electives may include the following prefixes: ACC, BUS, CIS, ECO, MGT, MKT (recommended CIS 104, CIS 120, CIS 220, CIS 240)

### FIRST YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
ACC	100	Business Accounting	3	_____
IAI		Humanities/Fine Arts Elective OR IAI Physical Science/Life Science Elective	3	_____
COM	115	Speech	3	_____
		Business Elective <sup>2</sup>	3	_____
		Business Elective <sup>2</sup>	3	_____
			15	

The Small Business Management AAS Degree (BUS 2006) is the parent program to:

- Business Management Certificate Program (BUS 2007)

The minimum general education component for the Associate in Applied Science degree requires satisfactory completion of at least 15 semester credits of coursework distributed over the disciplines of Communications, Mathematics, Arts and Humanities, Physical and Life Sciences, and Social and Behavioral Sciences. The curriculum guide for each Associate in Applied Science degree program will spell out the course requirements or options available for satisfying the general education component. With appropriate justification and in consultation with your academic advisor, a request to substitute a course for one recommended in this guide may be granted with the appropriate approvals from the Department Chair, Dean for Instruction and Vice-President for Instruction. However, no substitutions are allowed in Groups I-III (General Education Component; GECC) of the curriculum guide (see the Associate in Applied Science general degree requirements worksheet in the John A. Logan College Catalog).

Students planning to transfer and pursue a baccalaureate degree should, when given a choice, enroll in the general education course that is IAI GECC approved and articulated with participating Illinois institutions.

### SECOND YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
BUS	222	Legal/Social Environment of Business	3	_____
BUS	235	Business Communication	3	_____
BUS	255	Customer Service	3	_____
CIS	207	Computer Applications for Business	3	_____
ECO	201	Introduction to Macroeconomics OR ECO 202 Introduction to Microeconomics	3	_____
			15	

**Career Opportunities:** entry-level management positions in retail management, sales management, office management, and restaurant management; possible career opportunities within local, state, and federal government agency facilities.

### SECOND YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
ACC	105	Payroll Accounting	3	_____
MGT	112	Principles of Management	3	_____
MGT	228	Small Business Management	3	_____
MKT	224	Advertising	3	_____
PSY	132	General Psychology	3	_____
			15	

*John A. Logan College reserves the right to modify this curriculum guide as needed. Please verify with your academic advisor the accuracy and time lines of this document.*



# Associate in Applied Science

Toward a Degree in

## Surgical Technology

Career Curriculum STP 2021  
 Minimum Hours: 61.5  
 Major Code: 1.2 510909  
 Effective Date: Summer 2023

### FIRST YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
BIO	205	Anatomy & Physiology I	4	_____
HIT	217	Medical Terminology	3	_____
MAT	104	Mathematics for Applied Health	3	_____
STP	121	Introduction to Surgical Technology	<u>3</u>	_____
			13	

### FIRST YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
BIO	206	Anatomy & Physiology II	4	_____
STP	122	Principles & Practices	7	_____
STP	127	Pharmacology for Surgical Technology	<u>3</u>	_____
			14	

### FIRST YEAR – SUMMER SEMESTER

Dept.	No.		Hrs.	Grade
ENG	101	English Composition I or ENG 113 <sup>1</sup> Professional Technical Writing	3	_____
STP	123	Surgical Procedures I	2	_____
STP	125	Clinical Rotation I	<u>2.5</u>	_____
			7.5	

### SECOND YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
BIO	226	General Microbiology	4	_____
STP	225	Surgical Procedures II	5	_____
STP	226	Clinical Rotation II	<u>5</u>	_____
			14	

### SECOND YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
COM	115	Speech or COM 116 Interpersonal Communication	3	_____
STP	227	Surgical Procedures III	5	_____
STP	228	Clinical Rotation III	<u>5</u>	_____
			13	

### NOTES AND INFORMATION

<sup>1</sup> Requires a grade of "C" or higher.

The minimum general education component for the Associate in Applied Science degree requires satisfactory completion of at least 15 semester credits of coursework distributed over the disciplines of Communications, Mathematics, Arts and Humanities, Physical and Life Sciences, and Social and Behavioral Sciences. The curriculum guide for each Associate in Applied Science degree program will spell out the course requirements or options available for satisfying the general education component. With appropriate justification and in consultation with your academic advisor, a request to substitute a course for one recommended in this guide may be granted with the appropriate approvals from the Department Chair, Dean for Instruction and Vice-President for Instruction. However, no substitutions are allowed in Groups I-III (General Education Component; GECC) of the curriculum guide (see the Associate in Applied Science general degree requirements worksheet in the John A. Logan College Catalog).

Students planning to transfer and pursue a baccalaureate degree should, when given a choice, enroll in the general education course that is IAI GECC approved and articulated with participating Illinois institutions.

#### Additional Information:

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John A. Logan College

# Associate in Applied Science

Toward a Degree in

## Welding Technology

Career Curriculum WEL2010  
Minimum Hours: 65  
Major Code: 1.2 480508E  
Effective Date: Spring 2022

### FIRST YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
ORI	100	College 101	1	_____
MAT	113	OR MAT 100 Mathematics for Applied Technologies	3	_____
IND	201	Metallurgy	2	_____
WEL	120	OXYFUEL Welding, Cutting & Brazing	3	_____
WEL	121	SMAW (STICK) Plate Welding I	3	_____
WEL	122	GMAW(MIG) Plate Welding	3	_____
			15	

### NOTES AND INFORMATION

#### Fall only courses:

IDM 210  
MAC 200

<sup>1</sup> Requires a grade of "C" or higher.

Prerequisite: **OSHA 10-hour General Certification**

The minimum general education component for the Associate in Applied Science degree requires satisfactory completion of at least 15 semester credits of coursework distributed over the disciplines of Communications, Mathematics, Arts and Humanities, Physical and Life Sciences, and Social and Behavioral Sciences. The curriculum guide for each Associate in Applied Science degree program will spell out the course requirements or options available for satisfying the general education component. With appropriate justification and in consultation with your academic advisor, a request to substitute a course for one recommended in this guide may be granted with the appropriate approvals from the Department Chair, Dean for Instruction and Vice-President for Instruction. However, no substitutions are allowed in Groups I-III (General Education Component; GECC) of the curriculum guide (see the Associate in Applied Science general degree requirements worksheet in the John A. Logan College Catalog).

Students planning to transfer and pursue a baccalaureate degree should, when given a choice, enroll in the general education course that is IAI GECC approved and articulated with participating Illinois institutions.

**Career Opportunities:** Upon successful completion of the AAS degree, the student will have the opportunity to enter the workforce as a welding technician. The program will prepare graduates for entry into union trades positions including boilermakers, plumbers & pipefitters, structural steel workers, rail car repair and general maintenance; small and medium job shops.

**JALC Welding Program is an educational member of:**

**American Welding Society**  
8669 NW 36 Street  
Suite 130  
Doral, FL 33166



*John A. Logan College reserves the right to modify this curriculum guide as needed. Please verify with your academic advisor the accuracy and time lines of this document.*

### FIRST YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
ENG	101	English Composition <sup>1</sup> OR ENG 113 Professional Technical Writing <sup>1</sup>	3	_____
MAC	180	Blueprint Reading	3	_____
WEL	123	SMAW(STICK) Plate Welding II	3	_____
WEL	124	GTAW(TIG) Plate Welding I	3	_____
WEL	125	Weld Testing and Inspection	4	_____
			16	

### SECOND YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
IDM	210	Hydraulics and Pneumatics	3	_____
MAC	200	Machine Tool Laboratory	4	_____
COM	115	Speech	3	_____
DRT	185	Computer Graphics I	2	_____
WEL	126	SMAW(STICK) Welding III	3	_____
WEL	127	Welding & Metal Fabrication	3	_____
			18	

### SECOND YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
CMG	107	Construction Document Interpretation	3	_____
IAI		Physical/Life Science OR IAI Humanities/ Fine Arts Elective	3-5	_____
IAI		Social and Behavioral Science Elective	3	_____
WEL	128	Pipe Welding	4	_____
WEL	129	GTAW(TIG) Welding II	3	_____
			16-18	



John A. Logan College

# Associate in Engineering Science Degree in Chemical Engineering

Transfer Curriculum AES 0096  
Associate in Engineering Science:  
66-67 Hrs. Min.  
Major Code: 1.1 140701  
Effective Date: Fall 2020

## GENERAL EDUCATION (IAI GECC, 27-39 CREDITS)

The Illinois Articulation Initiative (IAI) General Education Core Curriculum (GECC) requires 27 to 39 credit hours from the following five areas: communication; mathematics; physical and life sciences; humanities; and social and behavioral sciences. Courses selected to meet IAI GECC requirements may also meet course requirements for a specific major.

### FIRST SEMESTER (FALL)

Dept.	No.		Hrs.	Grade
MAT	131	Calculus I	5	_____
ENG	101	English Composition I	3	_____
CHM	151	Chemical Principles	5	_____
ECO	202	Microeconomics		
		<u>or</u> Social Science Elective*	3	_____
ORI	100	College 101	1	_____
			17	

### SECOND SEMESTER (SPRING)

Dept.	No.		Hrs.	Grade
MAT	201	Calculus II	5	_____
PHY	205	University Physics I	5	_____
CHM	152	Chemical Principles with Qualitative Analysis	5	_____
ENG	102	English Composition II	3	_____
			18	

### THIRD SEMESTER (FALL)

Dept.	No.		Hrs.	Grade
MAT	202	Calculus III	3	_____
PHY	206	University Physics II	5	_____
CHM	201	Organic Chemistry I	5	_____
ECO	201	Macroeconomics <u>or</u> Social Science Elective*	3	_____
			16	

### FOURTH SEMESTER (SPRING)

Dept.	No.		Hrs.	Grade
MAT	205	Differential Equations	3	_____
CHM	202	Organic Chemistry II	5	_____
CPS	206	Computer Science I <u>or</u> Elective***	4	_____
		IAI Life Science Elective <u>or</u> Elective***	3-4	_____
			15-16	

Consult with the transfer institution to determine if certain courses require a grade of "C" or higher, or if there is a minimum grade point average for admission to your declared major. Please select courses on this guide in accordance with the Articulation Notes for your transfer institution.

#### Fall Only Courses:

EGR 101  
CHM 201  
CPS 215  
MAT 202  
PHY 201  
PHY 206

#### Spring Only Courses:

CHM 202  
CPS 206  
MAT 205  
PHY 202  
PHY 203  
PHY 214/224

\*Recommended Social Science electives: ANT 111, ANT 202, ANT 216, GEO 112, SOC 215. For other IAI Social Science Electives, see below.

\*\*Recommended Humanities/Fine Arts Electives: HIS 103, HIS 104, HIS 213, LIT 284, LIT 295, PHL 121, PHL 200. For other IAI Humanities, see below.

\*\*\*Choose electives based on your chosen transfer institution requirements.

**IAI INFORMATION:** This guide follows the guidelines established by the IAI Engineering major Panel for an Associates in Engineering Science Degree. This guide is not designed to complete the full IAI GECC component. You will need to fulfill the remaining IAI GECC courses at your transfer institution.

#### IAI Fine Arts Electives:

Art: ART 111, 220, 221, 291  
Literature: LIT 275  
Music: MUS 105, 225  
Theater: THE 113

#### IAI Humanities Electives:

Foreign Language: FRE 202, GER 202, SPN 202  
History: HIS 101, 102, 213  
Literature: LIT 210, 230, 235, 264, 280, 281, 284, 295  
Philosophy: PHL 111, 121, 131, 200, 260

#### IAI Social and Behavioral Sciences Electives:

Anthropology: ANT 111, 202, 216, 240  
Economics: ECO 201, 202  
Geography: GEO 112  
History: HIS 103, 104, 201, 202  
Political Science: PSC 131, 211, 212, 213, 289  
Psychology: PSY 132, 200, 203, 262  
Sociology: SOC 133, 221, 263, 264

#### IAI Life Science Electives:

Biology: BIO 100, 101, 105, 225  
Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B  
Life Science: SCI 215

**\*Please see your advisor for possible specific four-year university transfer guides.**

**ARTICULATION NOTES:** Consult your academic advisor and/or transfer institution to assess if any courses required for your major require a grade of C or higher and if there is a minimum grade point average needed for admission consideration into your major.

#### IAI ENGINEERING MAJOR PANEL INFORMATION

Take CHM 152 (IAI CHM 912), CHM 201 (CHM 913) and CHM 202 (CHM 914).  
Take MAT 131 (MTH 901), MAT 201 (MTH 902), MAT 202 (MTH 903) and MAT 205 (MTH 912).

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Take CHM 151 (CHM 911), PHY 205 (PHY 911), PHY 206 (PHY 912) and CPS 206 (CS 911).

SELECT one IAI GECC LIFE SCIENCE course. Also take ECO 202 (S3 902). If two courses are selected in this GECC area, a two course sequence in the same discipline is recommended (take ECO 201)

#### UIUC TRANSFER INFORMATION

UIUC offers a degree in Chemical and Biomolecular Engineering housed in the College of Liberal Arts and Sciences. A grade point average of 3.20 or higher (A=4.00) is required for admission. In addition applicants are considered on a space available basis.

Foreign Language through the third level (FRE, GER or SPN 201) is required as graduation requirement. Take ENG 101/102 (RHET 105), MAT 131 (MATH 220), MAT 201 (MATH 231), MAT 202 (UIUC bridge course of MATH 292 is required for MATH 241 credit), PHY205 (PHYS 211), PHY206 (PHYS 212) and CPS 206 (CS 101).

CHEM 202, 203, 204 205, 236 and CHEM 237 and MATH 285 and PHYS 214 are required AND recommended prior to transfer but equivalents are not available at JALC.

#### UIC TRANSFER INFORMATION

UIC offers a BS degree in Chemical Engineering

Take ENG 101 (ENGL 160), ENG 102 (ENGL 161), MAT 131(MATH 180), MAT 201 (MATH 181), MAT 202 (MATH 210), MAT 205 (MATH 220), PHY 205 (PHYS 141), PHY 206 (PHYS 142), CHM 151 (CHEM 122/123), CHM 152 (CHEM 124. 125), CHM 201 (CHEM 232/233) and CHM 202 (CHEM 234). Take PHY 215 (ECE 210) and CPS 206 (CS 109).

CHEM 222, CHE 201, 205 and 210 are also required but course equivalents are not offered at JALC



John A. Logan College

# Associate in Engineering Science Degree in Civil Engineering

Transfer Curriculum AES 0096  
Associate in Engineering Science:  
67-69 Hrs. Min.  
Major Code: 1.1 140801  
Effective Date: Spring 2023

## GENERAL EDUCATION (IAI GECC, 27-39 CREDITS)

The Illinois Articulation Initiative (IAI) General Education Core Curriculum (GECC) requires 27 to 39 credit hours from the following five areas: communication; mathematics; physical and life sciences; humanities; and social and behavioral sciences. Courses selected to meet IAI GECC requirements may also meet course requirements for a specific major.

Consult with the transfer institution to determine if certain courses require a grade of "C" or higher, or if there is a minimum grade point average for admission to your declared major. Please select courses on this guide in accordance with the Articulation Notes for your transfer institution.

### FIRST SEMESTER (FALL)

Dept.	No.		Hrs.	Grade
MAT	131	Calculus I	5	_____
EGR	101	Engineering Graphics <u>or</u> Elective***	3	_____
ENG	101	English Composition I	3	_____
CHM	151	Chemical Principles	5	_____
ORI	100	College 101	1	_____
			17	

#### Fall Only Courses:

EGR 101  
CHM 201  
CPS 215  
MAT 202  
PHY 201  
PHY 206

#### Spring Only Courses:

CHM 202  
CPS 206  
MAT 205  
PHY 202  
PHY 203  
PHY 214/224

\*Recommended Social Science electives: ANT 111, ANT 202, ANT 216, GEO 112, SOC 215. For other IAI Social Science Electives, see below.

### SECOND SEMESTER (SPRING)

Dept.	No.		Hrs.	Grade
MAT	201	Calculus II	5	_____
PHY	205	University Physics I	5	_____
CPS	206	Computer Science I <u>or</u> CHM 152 Chemical Principles w/ Qualitative Analysis	4-5	_____
ENG	102	English Composition II	3	_____
			17-18	

\*\*Recommended Humanities/Fine Arts Electives: HIS 103, HIS 104, HIS 213, LIT 284, LIT 295, PHL 200. For other IAI Humanities, see below.

\*\*\*Choose electives based on your chosen transfer institution requirements.

**IAI INFORMATION:** This guide follows the guidelines established by the IAI Engineering major Panel for an Associates in Engineering Science Degree. This guide is not designed to complete the full IAI GECC component. You will need to fulfill the remaining IAI GECC courses at your transfer institution.

#### IAI Fine Arts Electives:

Art: ART 111, 220, 221, 291  
Literature: LIT 275  
Music: MUS 105, 225  
Theater: THE 113

#### IAI Humanities Electives:

Foreign Language: FRE 202, GER 202, SPN 202  
History: HIS 101, 102, 213  
Literature: LIT 210, 230, 235, 264, 280, 281, 284, 295  
Philosophy: PHL 111, 121, 131, 200, 260

### THIRD SEMESTER (FALL)

Dept.	No.		Hrs.	Grade
MAT	202	Calculus III	3	_____
PHY	206	University Physics II	5	_____
PHY	201	Statics	3	_____
ECO	201	Macroeconomics <u>or</u> Social Science Elective*	3	_____
		Humanities/Fine Arts Elective**	3	_____
			17	

#### IAI Social and Behavioral Sciences Electives:

Anthropology: ANT 111, 202, 216, 240  
Economics: ECO 201, 202  
Geography: GEO 112  
History: HIS 103, 104, 201, 202  
Political Science: PSC 131, 211, 212, 213, 289  
Psychology: PSY 132, 200, 203, 262  
Sociology: SOC 133, 221, 263, 264

### FOURTH SEMESTER (SPRING)

Dept.	No.		Hrs.	Grade
MAT	205	Differential Equations	3	_____
PHY	202	Dynamics	3	_____
PHY	203	Mechanics of Materials	4	_____
ECO	202	Microeconomics <u>or</u> Social Science Elective*	3	_____
		IAI Life Science Elective <u>or</u> Elective***	3-4	_____
			16-17	

#### IAI Life Science Electives:

Biology: BIO 100, 101, 105, 225  
Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B  
Life Science: SCI 215

**\*Please see your advisor for possible specific four-year university transfer guides.**

**ARTICULATION NOTES:** Consult your academic advisor and/or transfer institution to assess if any courses required for your major require a grade of C or higher and if there is a minimum grade point average needed for admission consideration into your major.

#### IAI ENGINEERING MAJOR PANEL INFORMATION

Take EGR 101 (IAI EGR 941), PHY 201 (EGR 942), PHY 202 (EGR 943), PHY 203 (EGR 945).  
Take MAT 131 (MTH 901), MAT 201 (MTH 902), MAT 202 (MTH 903) and MAT 205 (MTH 912). Take CHM 151 (CHM 911), PHY 205 (PHY 911), PHY 206 (PHY

912) and CPS 206 (CS 911) and ECO 202 (S3 902). NOTE: If a second course is taken in the Social IAI GECC Social Science area, a two course sequence is recommended. Take also ECO 201 (S3 901)

#### SIUC TRANSFER INFORMATION

SIUC offers a B.S. degree in Civil Engineering and Civil Engineering with a specialization in Environmental Engineering.

Take ENG 101/102(ENGL 101/102), MAT 131 (MATH 150), COM 115 (CMST 101), ECO 202 (ECON 240) and BIO 225 (BIOL 202). Take CHM 151 (CHEM200/201), CHM 152 (CHEM 210), PHY 205 (PHYS 205A/255A), PHY 206 (PHYS 205B/225B), MAT 201 (MATH250), MAT 202 (MATH 251) and MAT 205 (MATH 305). Take PHY 201 (ENGR 250), PHY 202 (ENGR 261) and PHY 203 (ENGR 350A).

#### SIUE TRANSFER INFORMATION

SIUE offers a B.S degree in Civil Engineering

Take ENG 101/102 (ENG 101/102), COM 116 (ACS 103), MAT 131 (MATH 150), MATH 201 (MATH 152), MAT 202 (MATH 250) and MAT 205 (MATH 305). Take BIO 100 or 101 or 102 or 105 (to satisfy a BREATH LIFE SCIENCE-BLS requirement). Take PHY 205 (PHYS 151L), PHY 206 (PHY 152L), EGR 101 (CE 204), PHY 201 (CE 240), PHY 203 (CE 242), PHY 202 (ME 262), ECO 201 (ECON 111) and CPS 206 (CS 140).

CHEM 131, CHEM 135, PHYS 141, PHYS 142 and CE 206 are also required but an equivalent at JALC is currently not offered/articulated.

#### UIUC TRANSFER INFORMATION

UIUC offers a B.S. in Civil Engineering

For admission, students are expected to have a minimum GPA of 3.00 (A= 4.00). The average GPA for Civil Engineering applicants was 3.86 for the fall 2019 semester.

Take ENG 101/102 (RHET 105), CHM 151 (CHEM 102/103), CHM 152 (CHEM 104/105), MAT 131 (MATH 220), PHY 205(PHYS 211), ECO 202 (ECON 102) or ECO 201 (ECON 103) and CPS 206 (CS 101).

Take MAT 202 (MATH 241 with the completion of a bridge course at UIUC- MATH 292), MAT 221 (MATH 225), MAT 205 (MATH 284), PHY 206 (PHYS 212), PHY 201 (TAM 211), PHY 202 (TAM 212), PHY 203 (TAM 251) and CPS 206 (CS 101).

To satisfy a graduation requirement, students must complete a single foreign language through the third level (FRE 201, GER 201 OR SPN 201). This is not a requirement for admission.

#### OTHER

Of the Illinois Public Senior Institutions, UIC also offers a Civil Engineering degree program.



John A. Logan College

# Associate in Engineering Science Degree in Computer Engineering

Transfer Curriculum AES 0096  
Associate in Engineering Science:  
64-66 Hrs. Min.  
Major Code: 1.1 140901  
Effective Date: Fall 2020

## GENERAL EDUCATION (IAI GECC, 27-39 CREDITS)

The Illinois Articulation Initiative (IAI) General Education Core Curriculum (GECC) requires 27 to 39 credit hours from the following five areas: communication; mathematics; physical and life sciences; humanities; and social and behavioral sciences. Courses selected to meet IAI GECC requirements may also meet course requirements for a specific major.

Consult with the transfer institution to determine if certain courses require a grade of "C" or higher, or if there is a minimum grade point average for admission to your declared major. Please select courses on this guide in accordance with the Articulation Notes for your transfer institution.

### FIRST SEMESTER (FALL)

Dept.	No.		Hrs.	Grade
MAT	131	Calculus I	5	_____
EGR	101	Engineering Graphics <u>or</u> Elective***	3	_____
ENG	101	English Composition I	3	_____
CHM	151	Chemical Principles	5	_____
ORI	100	College 101	1	_____
			17	

#### Fall Only Courses:

EGR 101  
CHM 201  
CPS 215  
MAT 202  
PHY 201  
PHY 206

#### Spring Only Courses:

CHM 202  
CPS 206  
MAT 205  
PHY 202  
PHY 203  
PHY 214/224

\*Recommended Social Science electives: ANT 111, ANT 202, ANT 216, GEO 112, SOC 215. For other IAI Social Science Electives, see below.

### SECOND SEMESTER (SPRING)

Dept.	No.		Hrs.	Grade
MAT	201	Calculus II	5	_____
PHY	205	University Physics I	5	_____
CPS	206	Computer Science I	4	_____
ENG	102	English Composition II	3	_____
			17	

\*\*Recommended Humanities/Fine Arts Electives: HIS 103, HIS 104, HIS 213, LIT 284, LIT 295, PHL 200. For other IAI Humanities, see below.

\*\*\*Choose electives based on your chosen transfer institution requirements.

**IAI INFORMATION:** This guide follows the guidelines established by the IAI Engineering major Panel for an Associates in Engineering Science Degree. This guide is not designed to complete the full IAI GECC component. You will need to fulfill the remaining IAI GECC courses at your transfer institution.

### THIRD SEMESTER (FALL)

Dept.	No.		Hrs.	Grade
MAT	202	Calculus III	3	_____
PHY	206	University Physics II	5	_____
CPS	215	Computer Science II	4	_____
ECO	201	Macroeconomics <u>or</u> Social Science Elective*	3	_____
			15	

#### IAI Fine Arts Electives:

Art: ART 111, 220, 221, 291  
Literature: LIT 275  
Music: MUS 105, 225  
Theater: THE 113

#### IAI Humanities Electives:

Foreign Language: FRE 202, GER 202, SPN 202  
History: HIS 101, 102, 213  
Literature: LIT 210, 230, 235, 264, 280, 281, 284, 295  
Philosophy: PHL 111, 121, 131, 200, 260

### FOURTH SEMESTER (SPRING)

Dept.	No.		Hrs.	Grade
MAT	205	Differential Equations	3	_____
PHY	224	Electric Circuit Analysis w/Lab <u>or</u> PHY 214 Intro to Circuit Analysis	4-3	_____
ECO	202	Microeconomics <u>or</u> Social Science Elective*	3	_____
		Fine Arts/Humanities Elective**	3	_____
		IAI Life Science Elective <u>or</u> Elective***	3-4	_____
			15-17	

#### IAI Social and Behavioral Sciences Electives:

Anthropology: ANT 111, 202, 216, 240  
Economics: ECO 201, 202  
Geography: GEO 112  
History: HIS 103, 104, 201, 202  
Political Science: PSC 131, 211, 212, 213, 289  
Psychology: PSY 132, 200, 203, 262  
Sociology: SOC 133, 221, 263, 264

#### IAI Life Science Electives:

Biology: BIO 100, 101, 105, 225  
Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B  
Life Science: SCI 215

**\*Please see your advisor for possible specific four-year university transfer guides.**

**ARTICULATION NOTES:** Consult your academic advisor and/or transfer institution to assess if any courses required for your major require a grade of C or higher and if there is a minimum grade point average needed for admission consideration into your major.

#### IAI ENGINEERING MAJOR PANEL INFORMATION

Take CPS 206 (IAI CS 911), CPS 215 (CS 912), PHY 214 (EGR 931 or PHY 224).  
Equivalent to the Digital Systems courses are currently not offered (IAI EGR 932 OR 932L).



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Take MAT 131(MTH 901), MAT 201 (MTH 902), MAT 202 (MTH 903), MAT 205 (MTH 912), CHM 151 (CHM 911), PHY 205 (PHY 911) and PHY 206 (PHY 912). ECO 202 (IAI S3 902) is recommended. In addition, a two course sequence is recommended. If ECO 202 is selected, then add ECO 201 (S3 901).

#### SIUC TRANSFER INFORMATION

SIUC offers a B.S. degree in Computer Engineering

Take COM 115 (CMST 101), ENG 101 (ENGL 101), ENG 102 (ENGL 102), MAT 131 (MATH 150) and BIO 225 (BIO 202). Take PHY 205 (PHYS 205A/255A), PHY 206 (PHYS 205B/255B) CHM 151 (CHEM 200/201) or BIO 205 (PHSL 201/208), Take MAT 201 (MATH 259), MAT 202 (MATH 251), MAT 205 (MATH 305), PHY 214 (ECE 235) and PHY 224 (ECE235L). ECE-24 TECHNICAL ELECTIVE CREDITS (24) MUST BE APPROVED BY THE SIUC Electrical and Computer Engineering (ECE) department. GENERAL TECHNICAL ELECTIVES (6) MUST ALSO BE APPROVED BY THE SIUC ECE DEPARTMENT.

#### SIUE TRANSFER INFORMATION

SIUE offers a B.S. degree in Computer Engineering

Take ENG 101 (ENG 101), ENG 102 (ENG 102), COM 116 (ACS 103), MAT 131 (MATH 150), MAT 201 (MATH 152), MAT 202 (MATH 250), MAT 205 (MATH 305), CPS 206 (CS 140), CPS 215 (CS 150), PHY 205 (PHYS 151L), PHY 206 (PHYS 152L) and ECO 201 (ECON 111).

CHEM 131, CHEM 135, PHYS 141 and PHYS 142 are also required but currently JALC does not offer an equivalent course.

#### UIUC TRANSFER INFORMATION

UIUC offers a B.S. degree in Computer Engineering. It is generally expected that applicants have a minimum GPA of 3.00(A=4.00). The average GPA of fall 2019 admits to Computer Engineering was at 3.88.

Take ENG 101/102 (RHET 105), CHM 151 (CHEM 102/103), CHM 152 (CHEM 104/105, MAT 131 (MATH 220), PHY 205 (PHYS 211), ECO 202(ECON 102) or ECO 201 (ECON 103) is recommended. In addition, CPS 206 (CS 125) is recommended. A foreign language through the third level (FRE 201, GER 201 or SPN 201) is required as a graduation requirement not for admission.

#### OTHER

Among the Illinois Public Senior Institutions, NIU and UIC also offers a degree in Computer Engineering.



John A. Logan College

# Associate in Engineering Science Degree in Electrical Engineering

Transfer Curriculum AES 0096  
Associate in Engineering Science:  
66-67 Hrs. Min.  
Major Code: 1.1 141001  
Effective Date: Fall 2020

## GENERAL EDUCATION (IAI GECC, 27-39 CREDITS)

The Illinois Articulation Initiative (IAI) General Education Core Curriculum (GECC) requires 27 to 39 credit hours from the following five areas: communication; mathematics; physical and life sciences; humanities; and social and behavioral sciences. Courses selected to meet IAI GECC requirements may also meet course requirements for a specific major.

Consult with the transfer institution to determine if certain courses require a grade of "C" or higher, or if there is a minimum grade point average for admission to your declared major. Please select courses on this guide in accordance with the Articulation Notes for your transfer institution.

### FIRST SEMESTER (FALL)

Dept.	No.		Hrs.	Grade
MAT	131	Calculus I	5	_____
EGR	101	Engineering Graphics or Elective***	3	_____
ENG	101	English Composition I	3	_____
CHM	151	Chemical Principles	5	_____
ORI	100	College 101	1	_____
			17	

#### Fall Only Courses:

EGR 101
CHM 201
CPS 215
MAT 202
PHY 201
PHY 206

#### Spring Only Courses:

CHM 202
CPS 206
MAT 205
PHY 202
PHY 203
PHY 214/224

\*Recommended Social Science Electives: ANT 111, ANT 202, ANT 216, GEO 112, SOC 215. For other IAI Social Science Electives, see below.

\*\*Recommended Humanities/Fine Arts Electives: HIS 103, HIS 104, HIS 213, LIT 284, LIT 295, PHL 200. For other IAI Humanities, see below.

### SECOND SEMESTER (SPRING)

Dept.	No.		Hrs.	Grade
MAT	201	Calculus II	5	_____
PHY	205	University Physics I	5	_____
CPS	206	Computer Science I or CHM 152 Chemical Principles with Qualitative Analysis***	4-5	_____
ENG	102	English Composition II	3	_____
			17	

\*\*\*Choose electives based on your chosen transfer institution requirements.

**IAI INFORMATION:** This guide follows the guidelines established by the IAI Engineering major Panel for an Associates in Engineering Science Degree. This guide is not designed to complete the full IAI GECC component. You will need to fulfill the remaining IAI GECC courses at your transfer institution.

#### IAI Fine Arts Electives:

Art: ART 111, 220, 221, 291  
Literature: LIT 275  
Music: MUS 105, 225  
Theater: THE 113

#### IAI Humanities Electives:

Foreign Language: FRE 202, GER 202, SPN 202  
History: HIS 101, 102, 213  
Literature: LIT 210, 230, 235, 264, 280, 281, 284, 295  
Philosophy: PHL 111, 121, 131, 200, 260

### THIRD SEMESTER (FALL)

Dept.	No.		Hrs.	Grade
MAT	202	Calculus III	3	_____
PHY	206	University Physics II	5	_____
ECO	201	Microeconomics or Social Science Elective*	3	_____
		Humanities/Fine Arts Elective**	3	_____
		Life Science Elective	3-4	_____
			17-18	

#### IAI Social and Behavioral Sciences Electives:

Anthropology: ANT 111, 202, 216, 240  
Economics: ECO 201, 202  
Geography: GEO 112  
History: HIS 103, 104, 201, 202  
Political Science: PSC 131, 211, 212, 213, 289  
Psychology: PSY 132, 200, 203, 262  
Sociology: SOC 133, 221, 263, 264

### FOURTH SEMESTER (SPRING)

Dept.	No.		Hrs.	Grade
MAT	205	Differential Equations	3	_____
PHY	224	Electric Circuit Analysis w/Lab or		
PHY	214	Intro to Circuit Analysis	4-3	_____
ECO	202	Microeconomics or Social Science Elective*	3	_____
		Fine Arts/Humanities Elective**	3	_____
COM	115	Speech	3	_____
			15-16	

#### IAI Life Science Electives:

Biology: BIO 100, 101, 105, 225  
Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B  
Life Science: SCI 215

**Please see your advisor for possible specific four-year university transfer guides.**

**ARTICULATION NOTES:** Consult your academic advisor and/or transfer institution to assess if any courses required for your major require a grade of C or higher and if there is a minimum grade point average needed for admission consideration into your major.

#### IAI ENGINEERING MAJOR PANEL INFORMATION

Take MAT131-5 (MTH 901), MAT 201-5 (MTH 902), MAT 202-3 (MTH 903), MAT205-3 (MTH 912). Take CHM 151-5 (MTH 912), PHY 205-5 (PHY 911), PHY 206-5 (PHY 912) and CPS 206 (CS 911).

ECO 201 (S3 902 is recommended for all Engineering specializations but required for Industrial Engineering. If two Social and Behavioral Science courses

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are selected, a two course sequence in the same discipline is recommended (ECO 201-S3 901. A non-Western cultures course within the U.S. recommended (ANT 202, LIT 284, 295, SOC 215, 221)

#### SIUE TRANSFER INFORMATION

SIUE offers a B.B. degree in Electrical Engineering. Take ENG 101 (ENG 101), ENG 102 (ENG 102), COM 116 (ACS103), MAT 131 (MATH 150), MAT 201 (MATH 152), MAT 202 (MATH 250) and MAT 205 (MATH 305). Take ECO 201 (ECON 111), PHY 205 (PHY 151) and PHY 214 or 215 (ECE 210). SIUE requires a CHEM 131, 135, PHYS 141,142. ECE 211 and CS 145 but equivalents are not currently available.

#### SIUC TRANSFER INFORMATION

SIUC offers a B.S. degree in Electrical Engineering with a Biomedical specialization and a Power and Energy Engineering specialization.

##### --BIOMEDICAL SPECIALIZATION.

Take COM 115 (CMST 101), ENG 101 (ENGL 101), ENG102 (ENGL 102), MAT 131 (MATH 150), BIO 225 (BIO 202), PHY 205 (PHYS 205A) and PHY 206 (PHYS 205B).

For the biomedical Specialization requirements, take PHY 205(PHYS 205A/255A), PHY 206 (PHYS 205B/255B), BIO225 (BIO 202, CHM 151 or BIO 205 (Science Elective with lab)

Take CPS 206 or 176 (ECE 222), PHY 214 (ECE 235) and PHY 224 (ECE 235L).

Take ECE Technical Electives that are approved by the ECE department. Take General Technical Electives approved by the ECE department.

##### --POWER and ENERGY ENGINEERING SPECIALIZATION

Take COM 115 (CMST 101), ENG 101 (ENGL 101), ENG 102 (ENGL 102), MAT 131 (MATH 150), BIO 225 (BIO 202) and PHY 205/206 (PHYS 205A/B)

For the power and energy engineering specialization requirements, further information was not available at the time of preparing this document.

#### UIUC TRANSFER INFORMATION

UIUC offers a degree in Electrical Engineering under the College of Engineering.

For admission consideration, the expected minimum GPA is a 3.00 (A=4.00).

The average GPA for admitted transfer students for the fall 2019 semester in Electrical Engineering was at 3.86.

Take ENG 101/102 (RHET 105), CHM 151 (CHEM 102/103), CHEM 152 (CHEM 104/105), MAT 131 (MATH 220), MAT 201 (MATH 231), PHY 205 (PHY 211), ECO 202 (ECON 102) or ECO 201 (ECON 103) and CPS 206 (CS 101 or CS 125).

Take MAT 202 (to obtain equivalency to MATH 241, a UIUC bridge course must be completed-MATH 292). Take PHY 206 (PHYS 212), PHY 201 (TAM 211), PHY 202 (TAM 212) and PHY 203 (TAM 251)

As a Graduation Requirement, students must complete a foreign language through the third level (FRE 201, GER 201 or SPN 201). This is not a requirement for admission.

#### OTHER

Of the other Illinois Public Senior Institutions, EIU (new in 2020), UIC and NIU offer a degree program in Electrical Engineering



John A. Logan College

# Associate in Engineering Science Degree in Industrial Engineering

Transfer Curriculum AES 0096  
Associate in Engineering Science:  
67-68 Hrs. Min.  
Major Code: 1.1 143501  
Effective Date: Spring 2023

## GENERAL EDUCATION (IAI GECC, 27-39 CREDITS)

The Illinois Articulation Initiative (IAI) General Education Core Curriculum (GECC) requires 27 to 39 credit hours from the following five areas: communication; mathematics; physical and life sciences; humanities; and social and behavioral sciences. Courses selected to meet IAI GECC requirements may also meet course requirements for a specific major.

Consult with the transfer institution to determine if certain courses require a grade of "C" or higher, or if there is a minimum grade point average for admission to your declared major. Please select courses on this guide in accordance with the Articulation Notes for your transfer institution.

### FIRST SEMESTER (FALL)

Dept.	No.		Hrs.	Grade
MAT	131	Calculus I	5	_____
EGR	101	Engineering Graphics or Elective***	3	_____
ENG	101	English Composition I	3	_____
CHM	151	Chemical Principles	5	_____
ORI	100	College 101	1	_____
			17	

#### Fall Only Courses:

EGR 101  
CHM 201  
CPS 215  
MAT 202  
PHY 201  
PHY 206

#### Spring Only Courses:

CHM 202  
CPS 206  
MAT 205  
PHY 202  
PHY 203  
PHY 214/224

\*Recommended Social Science electives: ANT 111, ANT 202, ANT 216, GEO 112, SOC 215. For other IAI Social Science Electives, see below.

\*\*Recommended Humanities/Fine Arts Electives: HIS 103, HIS 104, HIS 213, LIT 284, LIT 295, PHL 200. For other IAI Humanities, see below.

\*\*\*Choose electives based on your chosen transfer institution requirements.

### SECOND SEMESTER (SPRING)

Dept.	No.		Hrs.	Grade
MAT	201	Calculus II	5	_____
PHY	205	University Physics I	5	_____
CPS	206	Computer Science I	4	_____
ENG	102	English Composition II	3	_____
			17	

**IAI INFORMATION:** This guide follows the guidelines established by the IAI Engineering major Panel for an Associates in Engineering Science Degree. This guide is not designed to complete the full IAI GECC component. You will need to fulfill the remaining IAI GECC courses at your transfer institution

### THIRD SEMESTER (FALL)

Dept.	No.		Hrs.	Grade
MAT	202	Calculus III	3	_____
PHY	206	University Physics II	5	_____
PHY	201	Statics	3	_____
ECO	201	Macroeconomics or Social Science Elective*	3	_____
		Fine Arts/Humanities Elective**	3	_____
			17	

#### IAI Fine Arts Electives:

Art: ART 111, 220, 221, 291  
Literature: LIT 275  
Music: MUS 105, 225  
Theater: THE 113

#### IAI Humanities Electives:

Foreign Language: FRE 202, GER 202, SPN 202  
History: HIS 101, 102, 213  
Literature: LIT 210, 230, 235, 264, 280, 281, 284, 295  
Philosophy: PHL 111, 121, 131, 200, 260

### FOURTH SEMESTER (SPRING)

Dept.	No.		Hrs.	Grade
MAT	205	Differential Equations	3	_____
PHY	202	Dynamics	3	_____
PHY	203	Mechanics of Materials	4	_____
ECO	202	Microeconomics or Social Science Elective*	3	_____
		IAI Life Science Elective or Elective***	3-4	_____
			16-17	

#### IAI Social and Behavioral Sciences Electives:

Anthropology: ANT 111, 202, 216, 240  
Economics: ECO 201, 202  
Geography: GEO 112  
History: HIS 103, 104, 201, 202  
Political Science: PSC 131, 211, 212, 213, 289  
Psychology: PSY 132, 200, 203, 262  
Sociology: SOC 133, 221, 263, 264

#### IAI Life Science Electives:

Biology: BIO 100, 101, 105, 225  
Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B  
Life Science: SCI 215

**\*Please see your advisor for possible specific four-year university transfer guides.**

**ARTICULATION NOTES:** Consult your academic advisor and/or transfer institution to assess if any courses required for your major require a grade of C or higher and if there is a minimum grade point average needed for admission consideration into your major.

#### IAI ENGINEERING MAJOR PANEL INFORMATION

Take EGR 101 (EGR 9410, PHY 201 (EGR 942), PHY 202 (EGR 943) and PHY 203 (EGR 945).

Take MAT 131 (MTH 901), MAT 201 (MTH 902) and MAT 202 (MTH 903). Take CHM 151 (CHM 911), PHY 205 (PHY 911), PHY 206 (PHY 912) and CPS 206 (CS

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911). Take ECO 202 (IAI S3 902). IF TWO COURSES ARE SELECTED FROM THIS IAI GECC CATEGORY, A TWO COURSE SEQUEENCE IS RECOMMENDED (take ECO 201-IAI GECC S3 901).

#### SIUC TRANSFER INFORMATION

SIUC does not offer a B.S. degree in INDUSTRIAL ENGINEERING. SIUC does offer a B.S. degree in industrial Management and Applied Engineering under the Department of Technology. This is an management oriented technical profession that is built upon sound knowledge and understanding of materials , processes, technical management and human relations; and a proficiency level in the physical sciences, mathematics and technical skills to permit the graduate to capably resolve technical-management an production problems.

#### SIUE TRANSFER INFORMATION

SIUE offers a B.B. degree in Industrial Engineering.

Take ENG 101 (ENG 101, ENG 102 (ENG 102) and ACS 103 (COM 116). Take MAT 131 (MATH 150), MAT 201 (MATH 152), MAT 202 (MATH 250 and MAT 205 (MATH 305). Take EGR 101 (CE 204), PHY 201 (CE 240), PHY 203 (CE 242), PHY 205 (PHYS 151L), PHY 206 (PHYS 152L), PHY 214 or PHY 215 (ECE 210) and ECO 201 (ECON 111).

#### UIUC TRANSFER INFORMATION

UIUC offers a B.S. degree in Industrial Engineering.

It is generally expected that applicants have a minimum of 3.00 (A= 4.00) overall GPA. The average GPA of a 2019 admitted transfer student in Industrial Engineering was at 3.85.

Take ENG 101/102 (RHET 105). CHM 151 (CHEM 102/103) CHM 202 (CHEM 104/105), MAT 131 (MATH 220), MAT 201 (MATH 231) and PHY 205 (PHYS 211). Take ECO 202 (ECON 102) or ECO 201 (ECON 103) and CPS 206 (CS 101 or 125.)

FOREIGN LANGUAGE THROUGH THE THIRD LEVEL (FRE 201, GER 201 or SPN 201) IS NOT REQUIRED FOR ADMISSION BUT IS REQUIRED AS A GRADUATION REQUIREMENT.

Take MAT 202 (FOR MATH 241 CREDIT, STUDENT WILL NEED TO TAKE UIUC BRIDGE COURSE-MATH 292), MAT 205 (MATH 284), PHY 206 (PHYS 212), PHY 201 (TAM211), PHY 202 (TAM 212), PHY 203 (TAM 251).

#### OTHER

UIC and CSU OFFER A BS DEGREE IN INDUSTRIAL ENGINEERING NIU OFFERS A BS DEGREE IN INDUSTRIAL AND SYSTEMS ENGINEERING



John A. Logan College

# Associate in Engineering Science Degree in Mechanical Engineering

Transfer Curriculum AES 0096  
Associate in Engineering Science:  
67-70 Hrs. Min.  
Major Code: 1.1 141901  
Effective Date: Spring 2023

## GENERAL EDUCATION (IAI GECC, 27-39 CREDITS)

The Illinois Articulation Initiative (IAI) General Education Core Curriculum (GECC) requires 27 to 39 credit hours from the following five areas: communication; mathematics; physical and life sciences; humanities; and social and behavioral sciences. Courses selected to meet IAI GECC requirements may also meet course requirements for a specific major.

Consult with the transfer institution to determine if certain courses require a grade of "C" or higher, or if there is a minimum grade point average for admission to your declared major. Please select courses on this guide in accordance with the Articulation Notes for your transfer institution.

### FIRST SEMESTER (FALL)

Dept.	No.		Hrs.	Grade
MAT	131	Calculus I	5	_____
EGR	101	Engineering Graphics <u>or</u> Elective***	3	_____
ENG	101	English Composition I	3	_____
CHM	151	Chemical Principles	5	_____
ORI	100	College 101	1	_____
			17	

#### Fall Only Courses:

EGR 101  
CHM 201  
CPS 215  
MAT 202  
PHY 201  
PHY 206

#### Spring Only Courses:

CHM 202  
CPS 206  
MAT 205  
PHY 202  
PHY 203  
PHY 214/224

\*Recommended Social Science electives: ANT 111, ANT 202, ANT 216, GEO 112, SOC 215. For other IAI Social Science Electives, see below.

### SECOND SEMESTER (SPRING)

Dept.	No.		Hrs.	Grade
MAT	201	Calculus II	5	_____
PHY	205	University Physics I	5	_____
CPS	206	Computer Science I <u>or</u> CHM 152 Chemical Principles w/ Qualitative Analysis***	4-5	_____
ENG	102	English Composition II	3	_____
			17-18	

\*\*Recommended Humanities/Fine Arts Electives: HIS 103, HIS 104, HIS 213, LIT 284, LIT 295, PHL 200. For other IAI Humanities, see below.

\*\*\*Choose electives based on your chosen transfer institution requirements.

**IAI INFORMATION:** This guide follows the guidelines established by the IAI Engineering major Panel for an Associates in Engineering Science Degree. This guide is not designed to complete the full IAI GECC component. You will need to fulfill the remaining IAI GECC courses at your transfer institution.

### THIRD SEMESTER (FALL)

Dept.	No.		Hrs.	Grade
MAT	202	Calculus III	3	_____
PHY	206	University Physics II	5	_____
PHY	201	Statics	3	_____
ECO	201	Macroeconomics <u>or</u> Social Science Elective*	3	_____
IAI Life Science Elective <u>or</u> Elective***			3-4	_____
			17-18	

#### IAI Fine Arts Electives:

Art: ART 111, 220, 221, 291  
Literature: LIT 275  
Music: MUS 105, 225  
Theater: THE 113

#### IAI Humanities Electives:

Foreign Language: FRE 202, GER 202, SPN 202  
History: HIS 101, 102, 213  
Literature: LIT 210, 230, 235, 264, 280, 281, 284, 295  
Philosophy: PHL 111, 121, 131, 200, 260

### FOURTH SEMESTER (SPRING)

Dept.	No.		Hrs.	Grade
MAT	205	Differential Equations	3	_____
PHY	202	Dynamics	3	_____
PHY	203	Mechanics of Materials	4	_____
PHY	224	Electric Circuit Analysis w/ Lab <u>OR</u> PHY 214 Intro to Circuit Analysis	4-3	_____
ECO	202	Microeconomics <u>or</u> Social Science Elective*	3	_____
			16-17	

#### IAI Social and Behavioral Sciences Electives:

Anthropology: ANT 111, 202, 216, 240  
Economics: ECO 201, 202  
Geography: GEO 112  
History: HIS 103, 104, 201, 202  
Political Science: PSC 131, 211, 212, 213, 289  
Psychology: PSY 132, 200, 203, 262  
Sociology: SOC 133, 221, 263, 264

#### IAI Life Science Electives:

Biology: BIO 100, 101, 105, 225  
Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B  
Life Science: SCI 215

**Please see your advisor for possible specific four-year university transfer guides.**

**ARTICULATION NOTES:** Consult your academic advisor and/or transfer institution to assess if any courses required for your major require a grade of C or higher and if there is a minimum grade point average needed for admission consideration into your major.

#### IAI ENGINEERING MAJOR PANEL INFORMATION

Take EGR 101 (IAI EGR 941), PHY 201 (EGR 942), PHY 202 (EGR 943), PHY 214 (EGR 931) or PHY 214 and 224 (EGR 931L) and PHY 203 (EGR 945).  
Take MAT 131 (IAI MTH 901), MAT 201 (MTH 902), MAT 202 (MTH 903), CHM 151 (CHM 911), PHY 205 (PHY 911), PHY 206 (PHY 912) and CPS 206 (CS 911).



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ECO 202 (IAI S3 9020 is recommended. In addition, if two courses are selected in this GECC area, a two course sequence is recommended (ECO 202 and ECO 201)

**SIUC TRANSFER INFORMATION.**

SIUC offers a B.S. degree in Mechanical Engineering. In addition, a specialization and minor is available in Energy Engineering.

Take BIO 225 (BIO 202), ECO 202 (ECON 240) and MAT 131 (MATH 150).

Take CHM 151 (CHEM 200/201) and CHM 152 (CHEM 210), PHY 205 (PHYS 205A/255A), PHY 206 (PHYS 205B/255B), MAT 131(MATH 150), MAT 201 (MATH 250), MAT 202 (MATH 251), MAT 205 (MATH 305), PHY201 (ENGR 250), PHY 202 (ENGR 261), PHY 203 (ENGR 350A) and EGR 101 (ME 102).

**SIUE TRANSFER INFORMATION**

SIUE offers a B.S. degree in Mechanical Engineering

Take MAT 131 (MATH 150), MAT 201 (MATH 152), MAT 202 (MATH 250), MAT 205 (MATH 205), EGR 101 (CE 204), PHY 201 (CE 240), PHY 205 (PHYS 151L), PHY 206 (PHYS 152L), PHY 202 (ME 262), PHY 203 (CE 242), PHY 214 or 215 (ECE 210), ECO 201 (ECON 111) and COM 116 (ACS 103).

CHEM 131-ENGINEERING CHEMISTRY, CHEM 135-ENGINEERING CHEMISTRY LAB, PHYS 141-PHYSICS I FOR ENGINEERING, PHY 142-PHYSICS II FOR ENGINEERING, IE 106-ENGINEERING PROBLEM SOLVING AND CS 145-INTRO TO COMPUTING FOR ENGINEERS ARE ALSO REQUIRED BUT EQUIVALENTS ARE CURRENTLY NOT OFFERED AT JALC.

**UIUC TRANSFER INFORMATION**

UIUC offers a degree in Mechanical Engineering. It is generally expected that applicants to an Engineering program will have a minimum GPA of 3.00 (A=4.00). The average GPA in 2019 for admitted transfer students was 3.91 for Mechanical Engineering.

Take ENG 101/102 (RHET 105), CHM 151 (CHEM 102/103), CHM 152 (CHEM 104/105), MAT 131 (MATH 220), PHY 205 (PHYS 211), ECO 202 (ECON 102), ECO 201 (ECON 103) and CPS 206 (CS101).

Also take MAT202 (MATH 241-to get credit for 241 a bridge course must be completed at UIUC /MATH 292), MAT 205(MATH 284), PHY 206 (PHYS 212), PHY 201 (TAM 211), PHY 202 (TAM 212), PHY 203 (TAM 251)

As a Graduation Requirement, a single foreign language through the third level-FRE 201, GER 201 or SPN 201 is required. It is not an admission requirement.

**OTHER**

Of the other Illinois Public Senior Institutions, NIU, UIC and WIU offer a degree in Mechanical Engineering.



John A. Logan College

# Associate in Engineering Science Degree in General Engineering

Transfer Curriculum AES 0096  
Associate in Engineering Science:  
67-69 Hrs. Min.  
Major Code: 1.1 140101  
Effective Date: Fall 2020

## GENERAL EDUCATION (IAI GECC, 27-39 CREDITS)

The Illinois Articulation Initiative (IAI) General Education Core Curriculum (GECC) requires 27 to 39 credit hours from the following five areas: communication; mathematics; physical and life sciences; humanities; and social and behavioral sciences. Courses selected to meet IAI GECC requirements may also meet course requirements for a specific major.

Consult with the transfer institution to determine if certain courses require a grade of "C" or higher, or if there is a minimum grade point average for admission to your declared major. Please select courses on this guide in accordance with the Articulation Notes for your transfer institution.

### FIRST SEMESTER (FALL)

Dept.	No.		Hrs.	Grade
MAT	131	Calculus I	5	_____
EGR	101	Engineering Graphics <u>or</u> Elective***	3	_____
ENG	101	English Composition I	3	_____
CHM	151	Chemical Principles	5	_____
ORI	100	College 101	1	_____
			17	

#### Fall Only Courses:

EGR 101  
CHM 201  
CPS 215  
MAT 202  
PHY 201  
PHY 206

#### Spring Only Courses:

CHM 202  
CPS 206  
MAT 205  
PHY 202  
PHY 203  
PHY 214/224

\*Recommended Social Science electives: ANT 111, ANT 202, ANT 216, GEO 112, SOC 215. For other IAI Social Science Electives, see below.

### SECOND SEMESTER (SPRING)

Dept.	No.		Hrs.	Grade
MAT	201	Calculus II	5	_____
PHY	205	University Physics I	5	_____
CPS	206	Computer Science I <u>or</u> CHM 152 Chemical Principles w/ Qualitative Analysis***	4-5	_____
ENG	102	English Composition II	3	_____
			17-18	

\*\*Recommended Humanities/Fine Arts Electives: HIS 103, HIS 104, HIS 213, LIT 284, LIT 295, PHL 200. For other IAI Humanities, see below.

\*\*\*Choose electives based on your chosen transfer institution requirements.

**IAI INFORMATION:** This guide follows the guidelines established by the IAI Engineering major Panel for an Associates in Engineering Science Degree. This guide is not designed to complete the full IAI GECC component. You will need to fulfill the remaining IAI GECC courses at your transfer institution.

### THIRD SEMESTER (FALL)

Dept.	No.		Hrs.	Grade
MAT	202	Calculus III	3	_____
PHY	206	University Physics II	5	_____
PHY	201	Statics	3	_____
ECO	201	Macroeconomics <u>or</u> Social Science Elective*	3	_____
Humanities/Fine Arts Elective**			3	_____
			17	

#### IAI Fine Arts Electives:

Art: ART 111, 220, 221, 291  
Literature: LIT 275  
Music: MUS 105, 225  
Theater: THE 113

#### IAI Humanities Electives:

Foreign Language: FRE 202, GER 202, SPN 202  
History: HIS 101, 102, 213  
Literature: LIT 210, 230, 235, 264, 280, 281, 284, 295  
Philosophy: PHL 111, 121, 131, 200, 260

### FOURTH SEMESTER (SPRING)

Dept.	No.		Hrs.	Grade
MAT	205	Differential Equations	3	_____
PHY	202	Dynamics	3	_____
ECO	202	Microeconomics <u>or</u> Social Science Elective*	3	_____
IAI Life Science Elective or Elective***			3-4	_____
PHY	224	Electric Circuit Analysis w/Lab <u>or</u> PHY 214 Intro to Circuit Analysis	4-3	_____
			16-17	

#### IAI Social and Behavioral Sciences Electives:

Anthropology: ANT 111, 202, 216, 240  
Economics: ECO 201, 202  
Geography: GEO 112  
History: HIS 103, 104, 201, 202  
Political Science: PSC 131, 211, 212, 213, 289  
Psychology: PSY 132, 200, 203, 262  
Sociology: SOC 133, 221, 263, 264

#### IAI Life Science Electives:

Biology: BIO 100, 101, 105, 225  
Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B  
Life Science: SCI 215

**Please see your advisor for possible specific four-year university transfer guides.**

**This curriculum guide should be followed by those students who have not yet decided which engineering specialty they wish to pursue.**

**ARTICULATION NOTES:** Consult your academic advisor and/or transfer institution to assess if any courses required for your major require a grade of C or higher and if there is a minimum grade point average needed for admission consideration into your major.

IAI ENGINEERING MAJOR PANEL INFORMATION

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This guide is designed for the student who begins at one Illinois institution and later transfer to another. If an Engineering specialty has been determined, follow the recommendations for that specific specialty.

\*IAI GECC RECOMMENDATIONS (if undecided), take ENG 101 (IAI C1 900), ENG 102 (C1 901R), MAT 131 (M1 900-1), MAT 201 (M1 900-2), MAT 202 (M1 900-3), CHM 151 (P1 902L), ECO 202 (S3 902).

NOTE: IF A TWO COURSES ARE SELECTED IN A FIELD UNDER SOCIAL/BEHAVIORAL SCIENCES, A TWO COURSE SEQUENCE IN THE SAME DISCIPLINE IS RECOMMENDED (take ECO 201-S3 901).

\*IAI MAJOR RECOMMENDATIONS (if undecided), take MAT 205 (MTH 912), PHY 205 (PHY 911), PHY 206 (PHY 912) and CPS 206 (CS 911).

\*IAI ENGINEERING SPECIALTY COURSES (if undecided): EGR 101 (EGR 941), PHY 201 (EGR 941), PHY 202 (EGR 943) and PHY 214 (EGR 931)

TO REACH THE 68 HOUR DEGREE REQUIREMENT, THE ADDITIONAL HOURS SHOULD BE USED TOWARD FULFILLING THE COMPLETE GECC PACKAGE (IAI HUMANITIES AND FINE ARTS-9, SOCIAL/BEHAVIORAL SCIENCES 3-6 AND PHYSICAL/LIFE SCIENCES-LIF SCIENCE COURSE)

#### OTHER

The following Illinois Public Senior Institutions offer one or more options in Engineering (CSU, EIU, NIU, SIUC, SIUE, UIC, UIUC and EIU).



John A. Logan College

# Associate in Fine Arts Degree in Art Studio

Transfer Curriculum 00AFA2015  
Associate in Fine Arts: 64 Hrs. Min.  
Major Code: 1.1500701  
Effective Date: Fall 2019

## GENERAL EDUCATION (IAI GECC, 37-38 CREDITS)

The Illinois Articulation Initiative (IAI) General Education Core Curriculum (GECC) requires 12 to 13 courses from the following five areas. Courses selected to meet IAI GECC requirements may also meet course requirements for a specific major.

### IAI COMMUNICATIONS (3 COURSES)

	Sem.	Grade
ENG 101 or ENG 113 (C grade or higher)	_____	_____
ENG 102 (C grade or higher)	_____	_____
COM 115 Speech	_____	_____

### IAI HUMANITIES AND FINE ARTS (3 COURSES)

At least one course must be an IAI Fine Arts elective and one course must be an IAI Humanities elective.

	Sem.	Grade
ART 220	_____	_____
ART 221	_____	_____
Humanities Elective	_____	_____

#### IAI Humanities Electives:

Foreign Language: FRE 202, GER 202, SPN 202  
History: HIS 101, 102, 213  
Literature: LIT 210, 230, 235, 264, 280, 281, 284, 295  
Philosophy: PHL 111, 121, 131, 200, 260

### IAI MATHEMATICS (1 COURSE)

	Sem.	Grade
MAT 112 OR MAT 113 or MAT Elective	_____	_____

#### IAI Mathematics Electives:

MAT 112, MAT 113, MAT 116, MAT 117, MAT 119, MAT 120, MAT 125/CPS 202, MAT 131, MAT 201, MAT 202, MAT 282

### IAI SOCIAL AND BEHAVIORAL SCIENCES (3 COURSES)

At least two different disciplines (course prefixes) must be represented.

	Sem.	Grade
PSY 132 or SOC 133	_____	_____
Social Science Elective	_____	_____
Social Science Elective	_____	_____

#### IAI Social and Behavioral Sciences Electives:

Anthropology: ANT 111, 202, 216, 240  
Economics: ECO 201, 202  
Geography: GEO 112  
History: HIS 103, 104, 201, 202  
Political Science: PSC 131, 211, 212, 213, 289  
Psychology: PSY 132, 200, 203, 262  
Sociology: SOC 133, 221, 263, 264

### IAI PHYSICAL/LIFE SCIENCES (2 COURSES)

One course must be at least 4 credit hours and include a lab component.

	Sem.	Grade
Life Science Elective	_____	_____
Physical Science Elective	_____	_____

#### IAI Life Science Electives:

Biology: BIO 100, 101, 105, 225  
Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B  
Life Science: SCI 215

#### IAI Physical Science Electives:

Chemistry: CHM 141, 151  
Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B  
Physical Science: PHS 102, 103, 105, 107  
Physics: PHY 121, 155, 205

## MAJOR AND GENERAL ELECTIVE REQUIREMENTS (IAI GECC and major/elective credits must total a minimum of 62 hours, of which 24-25 must be general elective credits.)

Consult with the transfer institution to determine if certain courses require a grade of "C" or higher, or if there is a minimum grade point average for admission to your declared major. Please select courses on this guide in accordance with the Articulation Notes for your transfer institution.

	Sem.	Grade
ORI 100 (1)	_____	_____
ART 101	_____	_____
ART 102	_____	_____
ART 180	_____	_____
ART 255	_____	_____
ART 256	_____	_____
ART 293	_____	_____
ART Elective*	_____	_____
ART Elective*	_____	_____
ART Elective *	_____	_____
ART Elective*	_____	_____

**MAJOR INFORMATION:** This guide follows the IAI Art Studio recommendations. Art Electives must be studio courses selected from at least two media, in consultation with the Art Advisor. Art Electives include: ART 165, 250, 260, 290, 291, 292, and 296.



John A. Logan College

# Associate in Fine Arts Degree in Music Education

Transfer Curriculum: 00AFA0089  
Associate in Arts: 67 Hrs. Min.  
Major Code: 1.1 131312M  
Effective Date: Fall 2019

## GENERAL EDUCATION (IAI GECC)

The Illinois Articulation Initiative (IAI) General Education Core Curriculum (GECC) requires 12 to 13 courses. Courses selected to meet IAI GECC requirements may also meet course requirements for a specific major.

### IAI COMMUNICATIONS (3 COURSES)

	Sem.	Grade
ENG 101 or ENG 113 (C grade or higher)	_____	_____
ENG 102 (C grade or higher)	_____	_____
COM 115 Speech	_____	_____

### IAI HUMANITIES AND FINE ARTS (3 COURSES)

At least one course must be an IAI Fine Arts elective and one course must be an IAI Humanities elective.

	Sem.	Grade
MUS 225 (3) Humanities Elective	_____	_____

#### IAI Humanities Electives:

Foreign Language: FRE 202, GER 202, SPN 202  
History: HIS 101, 102, 213  
Literature: LIT 210, 230, 235, 264, 280, 281, 284, 285  
Philosophy: PHL 111, 121, 131, 200, 260

### IAI MATHEMATICS (1 COURSE)

	Sem.	Grade
MAT Elective	_____	_____

#### IAI Mathematics Electives:

MAT 112, MAT 113, MAT 116, MAT 117, MAT 119, MAT 120, MAT 125/CPS 202, MAT 131, MAT 201, MAT 202, MAT 282

### IAI SOCIAL AND BEHAVIORAL SCIENCES (1 COURSE)

	Sem.	Grade
PSY 132 or PSC 131 or Social Science Elective	_____	_____

#### IAI Social and Behavioral Sciences Electives:

Anthropology: ANT 111, 202, 216, 240  
Economics: ECO 201, 202  
Geography: GEO 112  
History: HIS 103, 104, 201, 202  
Political Science: PSC 131, 211, 212, 213, 289  
Psychology: PSY 132, 200, 203, 262  
Sociology: SOC 133, 221, 263, 264

### IAI PHYSICAL/LIFE SCIENCES (2 COURSES)

One course must be at least 4 credit hours and include a lab component.

	Sem.	Grade
IAI Life Science Elective	_____	_____
Physical Science Elective	_____	_____

#### IAI Life Science Electives:

Biology: BIO 100, 101, 105, 225  
Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B  
Life Science: 215

#### IAI Physical Science Electives:

Chemistry: CHM 141, 151  
Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B  
Physical Science: PHS 102, 103, 105, 107  
Physics: PHY 121, 155, 205

## MAJOR AND GENERAL ELECTIVE REQUIREMENTS

(IAI GECC and major/elective credits must total a minimum of 66 hours for the degree.)

	Sem.	Grade
ORI 100 (1)	_____	_____
EDC 202 or Elective	_____	_____
EDC 203 or Elective	_____	_____

	Sem.	Grade
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#### Aural Skills, \*Theory:

MUS 108 (1)	_____	_____
MUS 109 (1)	_____	_____
MUS 121 (3)	_____	_____
MUS 122 (3)	_____	_____
MUS 208 (1)	_____	_____
MUS 209 (1)	_____	_____
MUS 221 (3)	_____	_____
MUS 222 (3)	_____	_____

\*Music Majors take an evaluation exam during the first full week of MUS 121. Those needing remediation are required to take MUS 110 concurrently with MUS 121.

	Sem.	Grade
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#### Ensemble

MUS 101A or 102A (1)	_____	_____
MUS 101A or 102A (1)	_____	_____
MUS 101A or 102A (1)	_____	_____
MUS 101A or 102A (1)	_____	_____

	Sem.	Grade
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#### Applied Music Instruction (Piano and

##### Primary):

MUS 106 (1)	_____	_____
MUS 111B (1)	_____	_____
MUS 111B (1)	_____	_____
MUS 111B (1)	_____	_____
MUS 211 (2)	_____	_____
MUS 211 (2)	_____	_____
MUS 211 (2)	_____	_____
MUS 211 (2)	_____	_____

**PROGRAM INFORMATION:** This program guide includes recommendations for the Associates in Fine Arts (AFA) degree. This degree requires up to 66 credits and does not require the full IAI GECC component, which can be completed upon transfer.

**ARTICULATION NOTES:** Consult with the transfer institution to assess if certain courses require a grade of "C" or higher, or if there is a minimum grade point average for admission to your declared major. **Please select courses on this guide in accordance with the transfer requirements for your transfer institution. Please note that not all electives listed are required to complete this degree. Hours must total 68.**

**TEACHER EDUCATION PROGRAM:** To be considered for admission into a formal Teacher Education Program, qualifying scores on the TAP, ACT plus writing, or SAT must be submitted. Students must earn a grade of "C" or higher in all courses for an endorsement and required in the major. Students must also meet the minimum grade point average required for consideration into the TEP (typically a minimum of 2.5, but may be higher depending on the institution or program selected). Helpful tips for applying to a Teacher Education Program may be found [here](#):

**SIUC TRANSFER INFORMATION:** Transfer students are required to audition in the applied area for admission into the Music Program.

**SIUE TRANSFER INFORMATION:** EDC 200, MUS 211 A-Z for 2 credits for two semesters, and 2 semesters in a single foreign language are required. PHL 121 is recommended for the IAI Humanities course. CIS 207 or CPS 176 is also recommended.

**EIU TRANSFER INFORMATION:** ART 111 and PSC 131 are required. Select one course from GEO 112, HIS 103, HIS 104, HIS 213, PHL 200, or PHL 260 to satisfy the cultural diversity/non-western world requirement.

**ISU TRANSFER INFORMATION:** Prior to admission as a Music major, students must pass a performance audition on an instrument or voice and demonstrate a level of piano proficiency. EDC 202 is required. Students should select one course from ANT 111, ANT 216, GEO 112, HIS 103, HIS 104, HUM 120, PHL 200, PHL 260, PSC 120, or PSC 212 to satisfy the Global Studies requirement for all majors.





John A. Logan College

# Associate in Fine Arts in Music Performance

Transfer Curriculum 00AFA0088  
Associate in Arts: 67 Hours  
Major Code: 1.1500901M  
Effective Date: Fall 2019

## GENERAL EDUCATION (IAI GECC, 37-38 CREDITS)

The Illinois Articulation Initiative (IAI) General Education Core Curriculum (GECC) requires 12 to 13 courses. Courses selected to meet IAI GECC requirements may also meet course requirements for a specific major.

### IAI COMMUNICATIONS (3 COURSES)

	Sem.	Grade
ENG 101 or ENG 113 (C grade or higher)	_____	_____
ENG 102 (C grade or higher)	_____	_____
COM 115 Speech	_____	_____

### IAI HUMANITIES AND FINE ARTS (3 COURSES)

At least one course must be an IAI Fine Arts elective and one course must be an IAI Humanities elective.

	Sem.	Grade
MUS 105	_____	_____
Humanities Elective	_____	_____
MUS 225	_____	_____

#### IAI Fine Arts Electives:

Art: ART 111, 220, 221, 291  
Literature: LIT 275  
Music: MUS 105, 225  
Theater: THE 113

#### IAI Humanities Electives:

Foreign Language: FRE 202, GER 202, SPN 202  
History: HIS 101, 102, 213  
Literature: LIT 210, 230, 235, 264, 280, 281, 284, 295  
Philosophy: PHL 111, 121, 131, 200, 260

### IAI MATHEMATICS (1 COURSE)

	Sem.	Grade
Math Elective	_____	_____

#### IAI Mathematics Electives:

MAT 112, MAT 113, MAT 116, MAT 117, MAT 119, MAT 120, MAT 125/CPS 202, MAT 131, MAT 201, MAT 202, MAT 282

### IAI SOCIAL AND BEHAVIORAL SCIENCES (2 COURSES)

At least two different disciplines (course prefixes) must be represented.

	Sem.	Grade
Social Science Elective	_____	_____
Social Science Elective	_____	_____

#### IAI Social and Behavioral Sciences Electives:

Anthropology: ANT 111, 202, 216, 240  
Economics: ECO 201, 202  
Geography: GEO 112  
History: HIS 103, 104, 201, 202  
Political Science: PSC 131, 211, 212, 213, 289  
Psychology: PSY 132, 200, 203, 262  
Sociology: SOC 133, 221, 263, 264

### IAI PHYSICAL/LIFE SCIENCES (2 COURSES) (7-8 hours)

One course must include a lab component.

	Sem.	Grade
Life Science Elective	_____	_____
Physical Science Elective	_____	_____

#### IAI Life Science Electives:

Biology: BIO 100, 101, 105, 225  
Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B  
Life Science: SCI 215

#### IAI Physical Science Electives:

Chemistry: CHM 141, 151  
Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B  
Physical Science: PHS 102, 103, 105, 107  
Physics: PHY 121, 155, 205

## MAJOR AND GENERAL ELECTIVE REQUIREMENTS (IAI GECC and major/elective credits must total a minimum of 66 hours)

	Sem.	Grade
ORI 100 (1)	_____	_____
MUS 108	_____	_____
MUS 109	_____	_____
MUS 208	_____	_____
MUS 209	_____	_____
MUS 121	_____	_____
MUS 122	_____	_____
MUS 221	_____	_____
MUS 222	_____	_____

\*Music Majors take an evaluation exam during the first full week of MUS 121. Those needing remediation are required to take MUS 110 concurrently with MUS 121.

#### Ensemble:

	Sem.	Grade
MUS 101A or MUS 102A	_____	_____
MUS 101A or MUS 102A	_____	_____
MUS 101A or MUS 102A	_____	_____
MUS 101A or MUS 102A	_____	_____

#### Applied Music Instruction (Piano and Primary):

	Sem.	Grade
MUS 106	_____	_____
MUS 111B	_____	_____
MUS 111B	_____	_____
MUS 111B	_____	_____
MUS 211	_____	_____
MUS 211	_____	_____
MUS 211	_____	_____
MUS 211	_____	_____

**ARTICULATION NOTES:** Consult the transfer institution to assess if certain courses require a grade of "C" or higher, or if there is a minimum grade point average for admission to your declared major. **Please select courses on this guide in accordance with the transfer requirements for your transfer institution. Please note that not all electives listed are required to complete this degree.**

**PROGRAM INFORMATION:** This program guide includes recommendations for the Associates in Fine Arts (AFA) degree. This degree requires up to 66 credits and does not require the full IAI GECC component, which can be completed upon transfer.

**SIUC TRANSFER INFORMATION:** Students planning to earn a Bachelor of Fine Arts in Musical Theater are not required to take foreign language.

**ISU TRANSFER INFORMATION:** Students should select one course from ANT 111, ANT 216, GEO 112, HIS 103, HIS 104, HUM 120, PHL 200, PHL 260, PSC 120, or PSC 212 to satisfy the Global Studies requirement for all majors.



# Associate in General Studies Degree in Associate in General Studies

Curriculum AGS 1996  
Associate in General Studies  
Minimum Hrs. 63  
Major Code: 1.0 240102D  
Effective Date: Fall 2019

## GENERAL EDUCATION (IAI GECC, 37-38 CREDITS)

The Illinois Articulation Initiative (IAI) General Education Core Curriculum (GECC) requires 12 to 13 courses from the following five areas. Courses selected to meet IAI GECC requirements may also meet course requirements for a specific major.

The Associate in General Studies (AGS) degree represents a prescribed curriculum that has been individually designed by mutual agreement between the student and his/her academic advisor to meet the student's educational needs and interests. The AGS degree is neither designed as a transfer-oriented curriculum nor is it intended to provide career preparation similar to an AAS degree. Students interested in earning a four-year baccalaureate degree at a future date should consult with the transfer institution to determine the acceptability and applicability of courses and credits with the AGS degree.

The individualized AGS degree curriculum must include at least 62 semester credits. Each AGS program must include the 21-semester credit General Education Component. Courses selected to fulfill the General Electives Component must be selected from baccalaureate (PCS 1.1) and/or career education (PCS 1.2) courses. Students may use credits earned within a certificate program toward fulfilling the General Electives Component. In addition, no more than four (4) credit hours of APE or PED activity credit may be used toward the AGS degree.

The AGS Worksheet/Contract should be prepared and approved before completing 55 semester credits of college-level coursework. The AGS Worksheet/Contract is to be completed jointly by the student and his/her academic advisor. To qualify for the AGS degree, the student must meet the established general and degree requirements for earning an associate degree from John A. Logan College.

The curriculum guide for the AGS degree is outlined below:

## GENERAL EDUCATION COMPONENT (21 credits)

The general education component of the AGS degree requires 21 credits. The minimum credit requirements for Groups I-V are listed below which total 18 credits. The remaining 3 credits can be fulfilled with 3 credits from any general education elective from Groups I-V.

Group I	Communications.....	6 credits
Group II	Humanities and Fine Arts.....	3 credits
Group III	Social and Behavioral Sciences .....	3 credits
Group IV	Physical and Life Sciences .....	3 credits
Group V	Mathematics.....	3 credits
	One elective from Group I-V .....	<u>3 credits</u>
		21 credits

### Group I Communications (6-9 CREDITS)

	Sem.	Grade
ENG 101 (3) or ENG 113 (3) (C grade or higher)	_____	_____
ENG 102 (3)	_____	_____
COM 115 (3) or COM 116 (3)	_____	_____
COM 116 is not an IAI GECC articulated course.		

### Group II Humanities and Fine Arts (3-6 credits)

	Sem.	Grade
Elective	_____	_____
Elective	_____	_____

### IAI Fine Arts Electives

Art .....	ART 111, 220, 221, 291
Drama/Speech.....	THE 113
Literature .....	LIT 275
Music.....	MUS 105, 225

### IAI Humanities Electives

Foreign Language .....	FRE 202, GER 202, SPN 202
History.....	HIS 101, 102, 213
Humanities.....	HUM 101
Literature .....	LIT 210, LIT 230, 235, 264, 280, 281, 284, 295
Philosophy.....	PHL 111, 121, 131, 200, 260

### Group III Social and Behavioral Sciences (3-6 credits)

	Sem.	Grade
Elective	_____	_____
Elective	_____	_____

### IAI Social and Behavioral Science Electives

Anthropology .....	ANT 111, 202, 216, 240
Economics .....	ECO 201, 202
Geography.....	GEO 112
History.....	HIS 103, 104, 201, 202
Political Science.....	PSC 131, 211, 212, 213, 289
Psychology .....	PSY 132, 200, 203, 262
Sociology.....	SOC 133, 221, 263, 264

### Group IV Physical and Life Sciences (3-6 credits)

	Sem.	Grade
Elective	_____	_____
Elective	_____	_____

### SCIENCE ELECTIVES

#### IAI Life Science Electives

Biology .....	BIO 100, 101, 105, 225
Interdisciplinary .....	PHS 101 with PHS 111, SCI 210A with SCI 210B
Life Science .....	PHS 100
Life Science .....	SCI 215

#### IAI Physical Science Electives

Chemistry .....	141, 151
Interdisciplinary .....	PHS 101 with PHS 111, SCI 210A with SCI 210B
Physical Science .....	PHS 102, 102, 105, 106, 107
Physics.....	PHY 121, 155, 205

The following courses may be used as physical and life sciences electives for the AGS degree but are not articulated as IAI GECC courses.

	Sem.	Grade
BIO 205 (4)	_____	_____
BIO 206 (4)	_____	_____
BIO 226 (4)	_____	_____

### Group V Mathematics (3-6 credits)

	Sem.	Grade
Elective	_____	_____
Elective	_____	_____

### IAI Mathematics Electives

MAT 112, MAT 113 (3), MAT 116 (3), MAT 117 (4), MAT 119, MAT 120 (3), MAT 125 or CPS 202 (3),
MAT 131 (5), MAT 201 (5), Mat 202 (3), MAT 282 (3)

The following courses may be used as math electives for the AGS degree but are not articulated as IAI GECC courses.

BUS 111 (3), MAT 100 (3), MAT 104 (3), MAT 111 (5), MAT 108 (3)
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**GENERAL ELECTIVES COMPONENT (41-43 credits)**

*Courses selected to fulfill the General Electives Component must be selected from baccalaureate (PCS 1.1) and/or career education (PCS 1.2) courses. In addition, no more than four (4) credit hours of Ped activity credit may be used toward the AGS degree.*

	Sem.	Grade
ORI 100 (1)		
Elective	_____	_____
Elective	_____	_____
Elective	_____	_____
Elective	_____	_____
Elective	_____	_____
Elective	_____	_____
Elective	_____	_____
Elective	_____	_____
Elective	_____	_____
Elective	_____	_____
Elective	_____	_____
Elective	_____	_____
Elective	_____	_____
Elective	_____	_____
Elective	_____	_____
Elective	_____	_____

This AGS Worksheet/Contract has been completed with the support of my academic advisor. Since a current and structured associate degree option at John A. Logan College will not meet my educational needs and interests, I am committing to pursue an individualized AGS degree program.

I understand that this contract cannot be changed without both my consent and the consent of my academic advisor.

A copy of this approved AGS Worksheet/Contract will be retained in my electronic student file.

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**STUDENT**

**ACADEMIC ADVISOR**

\_\_\_\_\_  
First Name/Middle Initial/Last Name *(Please print)*

\_\_\_\_\_  
Signature Date

\_\_\_\_\_  
Identification Number

\_\_\_\_\_  
Signature Date

*John A. Logan College reserves the right to modify these requirements as needed. Please verify with your academic advisor the accuracy and time of this document.*



John A. Logan College

# Associate in Science Degree (AS)

Transfer Curriculum 000A50087  
Associate in Science: 63 Hrs. Min.  
Major Code: 1.1300101B  
Effective Date: Fall 2019

## GENERAL EDUCATION (IAI GECC, 37 CREDITS)

The Illinois Articulation Initiative (IAI) General Education Core Curriculum (GECC) requires 12 to 13 courses. Courses selected to meet IAI GECC requirements may also meet course requirements for a specific major. The degree requirements as listed **do not complete IAI GECC core requirements.** An additional 3 credits of approved Humanities or Fine Arts and 3 credits of Social Sciences are needed to complete the core. These additional courses may be taken as electives or upon transfer to the four year institution.

### IAI COMMUNICATIONS (3 COURSES)

	Sem.	Grade
ENG 101 or ENG 113 (C grade or higher)	_____	_____
ENG 102 (C grade or higher)	_____	_____
COM 115 Speech	_____	_____

### IAI HUMANITIES AND FINE ARTS (2 COURSES)

At least one course must be an IAI Fine Arts elective and one course must be an IAI Humanities elective.

	Sem.	Grade
Fine Arts Elective	_____	_____
Humanities Elective	_____	_____

#### IAI Fine Arts Electives:

Art: ART 111, 220, 221, 291  
Literature: LIT 275  
Music: MUS 105, 225  
Theater: THE 113

#### IAI Humanities Electives:

Foreign Language: FRE 202, GER 202, SPN 202  
History: HIS 101, 102, 213  
Literature: LIT 210, 230, 235, 264, 280, 281, 284, 295  
Philosophy: PHL 111, 121, 131, 200, 260

### IAI MATHEMATICS (1 COURSE)

	Sem.	Grade
MAT Elective	_____	_____

#### IAI Mathematics Electives:

MAT 112, MAT 113, MAT 116, MAT 117, MAT 119, MAT 120, MAT 125/CPS 202, MAT 131, MAT 201, MAT 202, MAT 209, MAT 282

### IAI SOCIAL AND BEHAVIORAL SCIENCES (2 COURSES)

At least two different disciplines (course prefixes) must be represented.

	Sem.	Grade
Social Science Elective	_____	_____
Social Science Elective	_____	_____

#### IAI Social and Behavioral Sciences Electives:

Anthropology: ANT 111, 202, 216, 240  
Economics: ECO 201, 202  
Geography: GEO 112  
History: HIS 103, 104, 201, 202  
Political Science: PSC 131, 211, 212, 213, 289  
Psychology: PSY 132, 200, 203, 262  
Sociology: SOC 133, 215, 263, 264

### IAI PHYSICAL/LIFE SCIENCES (2 COURSES)

One course must be at least 4 credit hours and include a lab component.

	Sem.	Grade
Life Science Elective	_____	_____
Physical Science Elective	_____	_____

#### IAI Life Science Electives:

Biology: BIO 100, 101, 105, 225  
Interdisciplinary: PHS 101 and PHS 111, SCI 210A and SCI 210B  
Life Science: SCI 215

#### IAI Physical Science Electives:

Chemistry: CHM 141, 151  
Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B  
Physical Science: PHS 102, 103, 105, 107  
Physics: PHY 121, 155, 205

## MAJOR AND GENERAL ELECTIVE REQUIREMENTS (IAI GECC and major/elective credits must total a minimum of 63 hours, of which 25-26 must be general elective credits.)

Consult with the transfer institution to determine if certain courses require a grade of "C" or higher, or if there is a minimum grade point average for admission to your declared major. Please select courses on this guide in accordance with the Articulation Notes for your transfer institution.

### ADDITIONAL ASSOCIATE IN SCIENCE DEGREE

REQUIREMENTS (Courses should be applicable to the desired major)

	Sem.	Grade
MAT Elective (1 course)	_____	_____
Physical or Life Science Elective (1 course)	_____	_____
ORI 100 (1) Elective	_____	_____
Elective	_____	_____
Elective	_____	_____
Elective	_____	_____
Elective	_____	_____
Elective	_____	_____
Elective	_____	_____
Elective	_____	_____

**GENERAL ELECTIVES:** Electives may include all courses with the following prefixes, as well as specific courses listed below:

AFS, AGR, AMS, ANT, ART, BIO, CHM, COM, CPS, EDC, EGR, FRE, GEO, GER, HIS, HTH, HUM, INT, JRN, LIT, MUS, PED\*, PEDE, PHL, PHS, PHY, PSC, PSY, SCI, REC, SOC, SOCW, SPM, SPN, THE, and VOL

ACC.....	200, 201, 202
ALH .....	106, 107
BUS .....	110, 121, 222, 235
CIS .....	207, 240
CRJ.....	103, 105, 218, 223
ECE .....	160, 260, 245
ECO .....	201, 202
ENG .....	101, 102, 103, 113
IND .....	199
IPP .....	141, 142
ITD .....	152, 200, 205
LIN .....	101, 102
MAT .....	108, 109, 111, 112, 113, 116, 117, 119, 120, 125, 131, 201, 202, 205, 208, 209, 221, 282
ORI .....	100

\*No more than four (4) credit hours of PED courses may be used as general electives.



John A. Logan College

# Associate in Science Degree in Biological Science

Transfer Curriculum 000A50087  
Associate in Science: 64 Hrs. Min.  
Major Code: 1.1 260101B  
Effective Date: Fall 2019

## GENERAL EDUCATION (IAI GECC, 37-38 CREDITS)

The Illinois Articulation Initiative (IAI) General Education Core Curriculum (GECC) requires 12 to 13 courses from the following five areas. Courses selected to meet IAI GECC requirements may also meet course requirements for a specific major.

### IAI COMMUNICATIONS (9 HOURS)

	Sem.	Grade
ENG 101 or ENG 113 (C grade or higher)	_____	_____
ENG 102 (C grade or higher)	_____	_____
COM 115 Speech	_____	_____

### IAI HUMANITIES AND FINE ARTS (6 HOURS)

At least one course must be an IAI Fine Arts elective and one course must be an IAI Humanities elective.

	Sem.	Grade
Fine Arts Elective (3)	_____	_____
PHL 121 (3) or Humanities Elective (3)	_____	_____

#### IAI Fine Arts Electives:

Art: ART 111, 220, 221, 291  
Literature: LIT 275  
Music: MUS 105, 225  
Theater: THE 113

#### IAI Humanities Electives:

Foreign Language: FRE 202, GER 202, SPN 202  
History: HIS 101, 102, 213  
Literature: LIT 210, 230, 235, 264, 280, 281, 284, 295  
Philosophy: PHL 111, 121, 131, 200, 260

### IAI MATHEMATICS (3-5 HOURS)

	Sem.	Grade
MAT 282 (3) or MAT 131 (5) or MAT Elective	_____	_____

#### IAI Mathematics Electives:

MAT 112, MAT 113, MAT 120, MAT 119, MAT 125/CPS 202, MAT 131, MAT 201, MAT 202, MAT 282

### IAI SOCIAL AND BEHAVIORAL SCIENCES (6 HOURS)

At least two different disciplines (course prefixes) must be represented.

	Sem.	Grade
ECO 201 or Social Science Elective (3)	_____	_____
PSC 212 or GEO 112 or Social Science Elective (3)	_____	_____

#### IAI Social and Behavioral Sciences Electives:

Anthropology: ANT 111, 202, 216, 240  
Economics: ECO 201, 202  
Geography: GEO 112  
History: HIS 103, 104, 201, 202  
Political Science: PSC 131, 211, 212, 213, 289  
Psychology: PSY 132, 200, 203, 262  
Sociology: SOC 133, 221, 263, 264

### IAI PHYSICAL/LIFE SCIENCES (7-8 HOURS)

One course must include a lab component.

	Sem.	Grade
BIO 101 (4) or Life Science Elective	_____	_____
CHM 151 (5) or Physical Science Elective	_____	_____

#### IAI Life Science Electives:

Biology: BIO 100, 101, 105, 225  
Interdisciplinary: PHS 101 and PHS 111, SCI 210A and SCI 210B  
Life Science: SCI 215

#### IAI Physical Science Electives:

Chemistry: CHM 141, 151  
Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B  
Physical Science: PHS 102, 103, 105, 107  
Physics: PHY 121, 155, 205

## ADDITIONAL ASSOCIATE IN SCIENCE DEGREE

REQUIREMENTS: (COURSES SHOULD BE APPLICABLE TO DESIRED MAJOR)

	Sem.	Grade
BIO 102 (4)	_____	_____
MAT 282 (3) or MAT Elective	_____	_____

**MAJOR AND GENERAL ELECTIVE REQUIREMENTS (IAI GECC and major/elective credits must total a minimum of 64 hours, of which 24-25 must be general elective credits.)**

Consult with the transfer institution to determine if certain courses require a grade of "C" or higher, or if there is a minimum grade point average for admission to your declared major. Please select courses on this guide in accordance with the Articulation Notes for your transfer institution.

	Sem.	Grade
ORI 100 (1)	_____	_____
CHM 152 (5)	_____	_____
CHM 201 (5) or General Elective	_____	_____
CHM 202 (5) or General Elective	_____	_____
PHY 155 (5) or General Elective	_____	_____
PHY 156 (5) or General Elective	_____	_____
Foreign Language Elective or General Electives (8)	_____	_____

## ARTICULATION NOTES:

Consult with your transfer institution to assess if certain courses require a grade of "C" or higher, or if there is a minimum grade point average for admission to your declared major.

### Biological Sciences program

When reference is made to Biology or Biological Sciences, a general degree program may be appropriate or a more specialized biology track may best fit one's career interests. Plant Biology or Botany, Zoology, Biomedical Sciences (Pre-professional track for medicine, dentistry, podiatry, chiropractic), ecology and genetics are a few that are viewed as biology degree programs.

**IAI Biology Major Panel:** Take BIO 101, 102, CHM 152, 201 and 202 as Biological Sciences core courses. CHM 151 and MAT 131 are recommended.

**SIUC:** In addition to a Biology Education emphasis, the Biological Sciences program offers options in Biomedical Sciences as pre-professional preparation for medicine, dentistry, optometry, physician assistants pharmacy, podiatry or chiropractic) and Ecology. Other Biology options include Microbiology, Plant Biology or Botany, Physiology and Zoology.

For both specializations (Biomedical and Ecology), take a one year or two course sequence in a Foreign Language or CIS 207 or CPS 206 to meet the Supportive Skills requirement for the College of Science. Take BIO 101, 102, CHM 151, 152, 201 and 202. Take MAT 108 and 109 or 111 or 131. Take MAT 282. Take PHY 155 and 156.

**EIU:** For the Biological Sciences program option, take BIO 101, 102 and 205. Take CHM 151, 152 and 201. Take PHY 155 and 156. Take MAT 131 and 282. Take one year/two course sequence in a foreign language. The A.S. degree waives the culturally diverse course requirement for the BS degree.

For the Environmental Biology program option, take ECO 201. The PHY sequence is not required for this option. MAT 282 is not required.

**ISU:** Take BIO 101 and 102. In addition, students must complete one of the following sequences: General Biology; Conservation Biology; Physiology; Neuroscience and Behavior; Plant Biology or Zoology.

For General Biology, take BIO 240. Take CHM 151, 152 and 201. Take MAT 116 and 117 or MAT 131 and 201. Take PHY 121 or 155 or 205. Note MAT 120 (a match to ECO 138) is an acceptable substitute for either MAT 117 or MAT 201.

For Conservation Biology, take BIO 240. Required elective courses must include one from each of three groupings. Applicable courses include BIO 226 as a match to BSC 260 9 (Conceptual group) and BIO 115 as a match to BSC 292 (Zoology Taxon group). Take CHM 151, 152 and 201. Take MAT 116, 117 or MAT 131 and 201. Note MAT 120 (ECO 138) is an acceptable substitute for MAT 117 or MAT 201. Take PHY 121 or 155 or 201.

For Physiology, Neuroscience and Behavior Biology, take BIO 115 and BIO 226. Take CHM 151, 152 and 201. Take MAT 116, 117 or 131 and 201. Note, MAT 120 (ECO 138) is an acceptable substitute for either MAT 117 or 201. Take PHY 121 or 155 or 201.

For Plant Biology, Take BIO 240 or BIO 226. Take BIO 275. Take CHM 151, 152 and 201. Take MAT 116 and 117 or MAT 131 and 201. Note, MAT 120 (ECO 138) is an approved substitute for MAT 117 or 201. Take PHY 121 or 155 or 201.

For Zoology, take BIO 240 and BIO 115. Take CHM 151, 152 and 201. Take MAT 116 and 117 or MAT 131 and 201. Note MAT 120 (ECO 138) is an approved substitute for MAT 117 or 201. Take PHY 121 or 155 or 201.

To meet a general graduation requirement, take GEO 112 or PSC 212 to satisfy an AMALI (former Global Studies) course requirement.

All B.S. degrees require a STM course selected from BIO 226, 240, 275, CHM 142, 152, 201, PHS 107, MAT 117, 201, 202, 125, 221, BUS 121, PHY 156 or 206.

All degrees offered through the College of Liberal Arts and Sciences requires completion of a two course sequence or one year of a foreign language. Three years of the same language in high school with "C" or higher grades will provide a waiver for the one year/two course requirement.

**SIUE:** Take BIO 101 and 102. Take CHM 151 and 152 and CHM 201 and 202 as core requirements for Biological Sciences.

SIUE offers B.A. and B.S. degree options in Ecology/Evolution/Environment, Genetics and Cellular Biology, Integrative Biology, Medical Sciences and Medical Technology. Beyond the core, each option recommends PHL 121. The Ecology/Evolution/Environment option, the Genetics and Cellular Biology option, the Integrative Biology option and the Medical Science option all require MAT 131, PHY 155, 156 or PHY 205, 206 and MAT 282. The Medical Technology option requires MAT 109, PHY 155 and 156 or PHY 205 and 206 and MAT 120 or 282





John A. Logan College

# Associate in Science Degree in Chemistry

Transfer Curriculum 000A50087  
Associate in Science: 63 Hrs. Min.  
64 hours Max.  
Major Code: 1.1 400501B  
Effective Date: Fall 2019

## GENERAL EDUCATION (IAI GECC, 37-38 CREDITS)

The Illinois Articulation Initiative (IAI) General Education Core Curriculum (GECC) requires 12 to 13 courses from the following five areas. Courses selected to meet IAI GECC requirements may also meet course requirements for a specific major. The degree requirements as listed do **not** complete IAI GECC core requirements. An additional 3 credits of approved Humanities or Fine Arts **and** 3 credits of Social Sciences are needed to complete the core. These additional courses may be taken as electives or upon transfer to the four year institution.

### IAI COMMUNICATIONS (3 COURSES)

	Sem.	Grade
ENG 101 or ENG 113 (C grade or higher)	_____	_____
ENG 102 (C grade or higher)	_____	_____
COM 115 Speech	_____	_____

### IAI HUMANITIES AND FINE ARTS (2 COURSES)

At least one course must be an IAI Fine Arts elective and one course must be an IAI Humanities elective.

	Sem.	Grade
Fine Arts Elective	_____	_____
PHL 121 (3) or Humanities Elective	_____	_____

#### IAI Fine Arts Electives:

Art: ART 111, 220, 221, 291  
Literature: LIT 275  
Music: MUS 105, 225  
Theater: THE 113

#### IAI Humanities Electives:

Foreign Language: FRE 202, GER 202, SPN 202  
History: HIS 101, 102, 213  
Literature: LIT 211, 212, 231, 232, 235, 264, 280, 281, 284, 295  
Philosophy: PHL 111, 121, 131, 200, 260

### IAI MATHEMATICS (1 COURSE)

	Sem.	Grade
MAT 131 (5)	_____	_____

### IAI SOCIAL AND BEHAVIORAL SCIENCES (2 COURSES)

At least two different disciplines (course prefixes) must be represented.

	Sem.	Grade
Social Science Elective	_____	_____
Social Science Elective	_____	_____

#### IAI Social and Behavioral Sciences Electives:

Anthropology: ANT 111, 202, 216, 240  
Economics: ECO 201, 202  
Geography: GEO 112  
History: HIS 103, 104, 201, 202  
Political Science: PSC 131, 211, 212, 213, 289  
Psychology: PSY 132, 200, 203, 262  
Sociology: SOC 133, 221, 263, 264

### IAI PHYSICAL/LIFE SCIENCES (2 COURSES)

One course must be at least 4 credit hours and include a lab component.

	Sem.	Grade
BIO 101 (4) or Life Science Elective	_____	_____
CHM 151 (5)	_____	_____

#### IAI Life Science Electives:

Biology: BIO 100, 101, 105, 110, 115, 120, 225  
Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B  
Life Science: SCI 215

## MAJOR AND GENERAL ELECTIVE REQUIREMENTS (IAI GECC and major/elective credits must total a minimum of 63 hours, of which 24-25 must be general elective credits.)

Consult with the transfer institution to determine if certain courses require a grade of "C" or higher, or if there is a minimum grade point average for admission to your declared major. Please select courses on this guide in accordance with the Articulation Notes for your transfer institution.

	Sem.	Grade
ORI 100 (1)	_____	_____
CHM 152 (5)	_____	_____
CHM 201 (5)	_____	_____
CHM 202 (5)	_____	_____
BIO 102 (4) or Elective	_____	_____
MAT 119 (3) or MAT 120 (3) or MAT 282 (3) or General Elective	_____	_____
Foreign Language or General Elective (8)	_____	_____

#### Additional Associate in Science Degree Requirements

MAT 201(5)	_____	_____
PHY 205 (5)	_____	_____

**ARTICULATION NOTES:** Consult the transfer institution for specific requirements.

**IAI CHEMISTRY PANEL INFORMATION:** Take CHM 151, 152, 201, 202 to complete the core. MAT 131, MAT 201 and PHY 206 and PHY 206 are recommended.

**SIUC TRANSFER INFORMATION:** CHM 151, 152, and 201 are required, as is MAT 131, 201 and either MAT 221 or 202 or 205. PHY 205 and 206 are also required. BIO 101/102 will meet the College of Science Biological Sciences requirement. CPS 206 and MAT 282 will meet the Supportive Skills requirement. Students will select a specialization from Biochemistry, Environmental, Forensic or Comprehensive Chemistry options. The American Chemical Society Certification is also available.

**SIUE TRANSFER INFORMATION:** For the B.S degree option, take CHM 151, 152, 201 and 202. MAT 131, 201 and MAT120 or 282. Take PHY 205 and 206. PHL 121 is recommended. For the B.S. Forensics option, take BIO 101 and 102. PHL 121 is recommenced.

\* For a B.A. degree, in addition, take a one year/two course sequence in a Foreign Language. For the BA Biochemistry option, take the foreign Language (one year/two course sequence), BIO 101 and 102. PHL 121 is recommended.

**EIU TRANSFER INFORMATION:** Take CHM 151, 152, 201 and 202. Take PHY 205 and 206. Take MAT 131 and 201. Concentrations or options are available in Biochemistry, American Chemical Society Certification and in Management. For the Management option, additional course requirements include CIS 207, ACC 200, 201 and 202, BUS 121 and 222, ECO 201 and 202.

**ISU TRANSFER INFORMATION:** For the B.S. degree, take CHM 151, 152, 201 and 202. Take PHY 205 and 206. Take MAT 131 and 201. For the Biochemistry option, in addition, take BIO 101 and 102.

\* As a general graduation requirement, all students must complete an AMALI (former Global Studies) course. GEO 112 (GEO 135) or PSC 212 (POL 151) will satisfy this degree requirement.

\*All B.S. degrees require a SMT course selected from BIO 226, 240,275, CHM 142, 152 or 201. Take PHS 107, MAT 117, 201, 202, 125, 221, BUS 121, PHY 156 or 206

\*All B.A. degrees require successful completion of a FL through the third course or first intermediate level course.

\*All degrees offered through the College of Liberal Arts and Sciences requires completion of a two course sequence or one year of a foreign language. Three years of the same language in high school will also meet this requirement.



John A. Logan College

# Associate in Science Degree in Computer Science Business Applications Track

Transfer Curriculum 000AS0087  
Associate in Science: 64 Hrs. Min.  
Major Code: 1.1 110701B  
Effective Date: Fall 2019

## GENERAL EDUCATION (IAI GECC, 37-38 CREDITS)

The Illinois Articulation Initiative (IAI) General Education Core Curriculum (GECC) requires 12 to 13 courses from the following five areas. Courses selected to meet IAI GECC requirements may also meet course requirements for a specific major. The degree requirements as listed **do not complete IAI GECC core requirements**. An additional 3 credits of approved Humanities or Fine Arts and 3 credits of Social Sciences are needed to complete the core. These additional courses may be taken as electives or upon transfer to the four year institution

### IAI COMMUNICATIONS (3 COURSES)

	Sem.	Grade
ENG 101 or ENG 113 (C grade or higher)	_____	_____
ENG 102 (C grade or higher)	_____	_____
COM 115 Speech	_____	_____

### IAI HUMANITIES AND FINE ARTS (3 COURSES)

At least one course must be an IAI Fine Arts elective and one course must be an IAI Humanities elective.

	Sem.	Grade
Fine Arts Elective	_____	_____
PHL 121 or Humanities Elective	_____	_____

#### IAI Fine Arts Electives:

Art: ART 111, 220, 221, 291  
Literature: LIT 275  
Music: MUS 105, 225  
Theater: THE 113

#### IAI Humanities Electives:

Foreign Language: FRE 202, GER 202, SPN 202  
History: HIS 101, 102, 213  
Literature: LIT 210, 230, 235, 264, 280, 281, 284, 295  
Philosophy: PHL 111, 121, 131, 200, 260

### IAI MATHEMATICS (1 COURSE)

	Sem.	Grade
MAT 125 (3) or IAI MAT Elective	_____	_____

### IAI SOCIAL AND BEHAVIORAL SCIENCES (2 COURSES)

At least two different disciplines (course prefixes) must be represented.

	Sem.	Grade
ECO 201 or Social Science Elective	_____	_____
ECO 202 or Social Science Elective	_____	_____

#### IAI Social and Behavioral Sciences Electives:

Anthropology: ANT 111, 202, 216, 240  
Economics: ECO 201, 202  
Geography: GEO 112  
History: HIS 103, 104, 201, 202  
Political Science: PSC 131, 211, 212, 213, 289  
Psychology: PSY 132, 200, 203, 262  
Sociology: SOC 133, 221, 263, 264

### IAI PHYSICAL/LIFE SCIENCES (2 COURSES) 7-8 HOURS

One course must be at least 4 credit hours and include a lab component.

	Sem.	Grade
BIO 101 (4) or Life Science Elective	_____	_____
PHY 155 (5) or Physical Science Elective	_____	_____

#### IAI Life Science Electives:

Biology: BIO 100, 101, 105, 225  
Interdisciplinary: PHS 101 with PHS 111  
Life Science: SCI 215

#### IAI Physical Science Electives:

Chemistry: CHM 141, 151  
Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B  
Physical Science: PHS 102,103,105,107  
Physics: PHY 121, 155, 205

## Additional Associate in Science Degree Requirements:

(Courses should be applicable to desired degree)

PHY 155 (5)	_____	_____
MAT 131 (5)	_____	_____

**MAJOR AND GENERAL ELECTIVE REQUIREMENTS (IAI GECC and major/elective credits must total a minimum of 64 hours, of which 24-25 must be general elective credits.)**

Consult with the transfer institution to determine if certain courses require a grade of "C" or higher, or if there is a minimum grade point average for admission to your declared major. Please select courses on this guide in accordance with the Articulation Notes for your transfer institution.

	Sem.	Grade
ORI 100 (1)	_____	_____
CPS 206 (4) (spring semester course)	_____	_____
CPS 215 (4) (fall semester even number years)**	_____	_____
MAT 119 (3) or MAT 120 or Elective	_____	_____
PHY 156	_____	_____
BIO 105, 110 or Elective	_____	_____
Elective	_____	_____

\*\*NOTE: Students beginning this program in even number years, fall semester, may take a math elective as a substitution for CPS 215.

**ARTICULATION NOTES:** Consult the transfer institution for specific requirements.

**IAI AND PANEL INFORMATION:** CPS 202, 206, 215, ECO 201, 202, MAT 131, PHY 155 and 156 are required to satisfy the IAI Major Panel. JALC also recommends ENG 113, PHL 121, and MAT 120 for the degree.

**SIUC TRANSFER INFORMATION:** CPS 202, 206, 215, ECO 201, 202, PHL 121, MAT 131, PHY 155 and 156 are required. A grade of "C" or higher is required in all CPS courses. BIO 105 and 110 will satisfy the biological sciences requirement in the College of Science. This track leads to the Bachelor of Arts Degree in Computer Science.



John A. Logan College

# Associate in Science Degree in Computer Science Traditional Track

Transfer Curriculum 000AS0087  
Associate in Science: 63 Hrs. Min.  
Major Code: 1.1 110701  
Effective Date: Fall 2019

## GENERAL EDUCATION (IAI GECC, 37-38 CREDITS)

The Illinois Articulation Initiative (IAI) General Education Core Curriculum (GECC) requires 12 to 13 courses from the following five areas. Courses selected to meet IAI GECC requirements may also meet course requirements for a specific major. The degree requirements as listed **do not complete IAI GECC core requirements**. An additional 3 credits of approved Humanities or Fine Arts and 3 credits of Social Sciences are needed to complete the core. These additional courses may be taken as electives or upon transfer to the four year institution.

### IAI COMMUNICATIONS (3 COURSES)

	Sem.	Grade
ENG 101 or ENG 113 (C grade or higher)	_____	_____
ENG 102 (C grade or higher)	_____	_____
COM 115 Speech	_____	_____

### IAI HUMANITIES AND FINE ARTS (3 COURSES)

At least one course must be an IAI Fine Arts elective and one course must be an IAI Humanities elective.

	Sem.	Grade
Fine Arts Elective	_____	_____
PHL 121 or Humanities Elective	_____	_____

#### IAI Fine Arts Electives:

Art: ART 111, 220, 221, 291  
Literature: LIT 275  
Music: MUS 105, 225  
Theater: THE 113

#### IAI Humanities Electives:

Foreign Language: FRE 202, GER 202, SPN 202  
History: HIS 101, 102, 213  
Literature: LIT 210, 230, 235, 264, 280, 281, 284, 295  
Philosophy: PHL 111, 121, 131, 200, 260

### IAI MATHEMATICS (1 COURSE)

	Sem.	Grade
MAT 131 (5)	_____	_____

### IAI SOCIAL AND BEHAVIORAL SCIENCES (2 COURSES)

At least two different disciplines (course prefixes) must be represented.

	Sem.	Grade
ECO 201 (3) or Social Science Elective	_____	_____
ECO 202 (3) or Social Science Elective	_____	_____

#### IAI Social and Behavioral Sciences Electives:

Anthropology: ANT 111, 202, 216, 240  
Economics: ECO 201, 202  
Geography: GEO 112  
History: HIS 103, 104, 201, 202  
Political Science: PSC 131, 211, 212, 213, 289  
Psychology: PSY 132, 200, 203, 262  
Sociology: SOC 133, 221, 263, 264

### IAI PHYSICAL/LIFE SCIENCES (2 COURSES)

One course must be at least 4 credit hours and include a lab component.

	Sem.	Grade
BIO 101 (4) or Life Science Elective	_____	_____
PHY 205 (5)	_____	_____

#### IAI Life Science Electives:

Biology: BIO 100, 101, 105, 225  
Interdisciplinary: PHS 101 with PHS 111  
Life Science: SCI 215

#### IAI Physical Science Electives:

Chemistry: CHM 141, 151  
Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B  
Physical Science: PHS 102, 103, 105, 107  
Physics: PHY 121, 155, 205

## MAJOR AND GENERAL ELECTIVE REQUIREMENTS (IAI GECC and major/elective credits must total a minimum of 63 hours, of which 24-25 must be general elective credits.)

Consult with the transfer institution to determine if certain courses require a grade of "C" or higher, or if there is a minimum grade point average for admission to your declared major. Please select courses on this guide in accordance with the Articulation Notes for your transfer institution.

	Sem.	Grade
ORI 100 (1)	_____	_____
CPS 206 (4) (spring semester course)	_____	_____
CPS 202/MAT 125 (3) (fall semester odd num. years) or Elective	_____	_____
CPS 215 (4) (fall semester in even num. years)**	_____	_____
MAT 201 (5) or General Elective	_____	_____
MAT 221 (3) (spring semester even num. years) or Elective	_____	_____
CHM 151 (5) or General Elective	_____	_____
CHM 152 (5) or General Elective	_____	_____

\*\*NOTE: Students beginning this program in even number years, fall semester, may take MAT 202 or MAT 205 as a substitution for CPS 215.

#### Additional Associate in Science Requirements: (Courses should be applicable to desired major)

PHY 206 (5) or Physical or Life Science Elective	_____	_____
MAT 201 (5) or MAT 125 (3) or MAT Elective	_____	_____

#### ARTICULATION NOES: Consult the transfer institution for specific requirements.

\*IAI Computer Science Major Panel: Take CPS 206 and 215 (Recommendation: take both at same institution). Take CPS 202 or MAT 125. Recommendations include ECO 201, 201, PHY 205 and MAT 131, 117, 116 or 125.

\*SIUC: Take CPS 206, 215 and CPS 202 (or MAT 125). Take MAT 131, 201 and 221. PHL 121 is recommended.

To meet the College of Science Biological Science requirement, take BIO 101 and 102. Take PHY 205 and 206 or CHM 151 and 152 to meet the Physical Science requirement. Take the Supportive Skills requirement at SIUC.

\*SIUE: For the B.S. degree option, take CPS 206 and 215. Take MAT 131 and 201. Take PHL 121. SPE 116 is an approved match to ACS 103. Take PHY 205 and 206 or CHM 151 and 152 to satisfy a Laboratory Science requirement. Take BIO 101 to satisfy an additional Science Lab Elective

-For the B.A. degree option, take CPS 206 and 215. Take MAT 282 (a match to STAT 244) and MAT 131. Take PHL 121. COM 116 is a match to ACS 103. A two course sequence or one year of a foreign language is also required.

\*EIU: Take CPS 206, 215 and 208. Take MAT 131, 201, 202 and 221. Take MAT 125 or CPS 202. MAT 205 is a match to MAT 3501 and can be used as Computer Science elective credit. Two course sequence or one year of a foreign language is required. Some institutions will accept IPP 141/142 in lieu of a foreign language. Two years of same language in high school with C or better grades allows for an exemption.

\*ISU: Take CPS 206. Take MAT 131 and 201. Take BUS 121-3 as a match to MQM 100. Take CHM 141 and 142 or PHY 205 and 206. Take BIO 101 and 102. All graduates must complete one course that fulfills the AMALI (former Global Studies) requirement. GEO 112 or PSC 212 will satisfy this requirement. All Bachelor of Science degrees require successful completion of a three credit course from a listing of SMT (Science, Mathematics including Statistics or Technology) courses. Select from BIO 226, 240, 275, CHM 142, 152, 201, PHS 107, MAT 117, 201, 202, 125, 221, BUS 121, PHY 156 or 206. All graduates seeking a degree under the College of Arts and Sciences must successfully complete a two course sequence or one year of a foreign language. ASL 141 and 142 will meet this requirement. Three years of the same language in high school will also satisfy this requirement.



John A. Logan College

# Associate in Science Degree in Engineering Technology

Transfer Curriculum 000AS0087  
Associate in Science: 64 Hrs. Min.  
Major Code: 1.1 150303B  
Effective Date: Fall 2019

## GENERAL EDUCATION (IAI GECC, 37-38 CREDITS)

The Illinois Articulation Initiative (IAI) General Education Core Curriculum (GECC) requires 12 to 13 courses from the following five areas. Courses selected to meet IAI GECC requirements may also meet course requirements for a specific major. The degree requirements as listed **do not complete IAI GECC core requirements**. An additional 3 credits of approved Humanities or Fine Arts and 3 credits of Social Sciences are needed to complete the core. These additional courses may be taken as electives or upon transfer to the four year institution.

### IAI COMMUNICATIONS (3 COURSES)

	Sem.	Grade
ENG 101 or ENG 113 (C grade or higher)	_____	_____
ENG 102 (C grade or higher)	_____	_____
COM 115 Speech (3)	_____	_____

### IAI HUMANITIES AND FINE ARTS (2 COURSES)

	Sem.	Grade
Fine Arts Elective (3)	_____	_____
Humanities Elective (3)	_____	_____

#### IAI Fine Arts Electives:

Art: ART 111, 220, 221, 291  
Literature: LIT 275  
Music: MUS 105, 225  
Theater: THE 113

#### IAI Humanities Electives:

Foreign Language: FRE 202, GER 202, SPN 202  
History: HIS 101, 102, 213  
Literature: LIT 210, 230, 235, 264, 280, 281, 284, 295  
Philosophy: PHL 111, 121, 131, 200, 260

### IAI MATHEMATICS (1 COURSE)

	Sem.	Grade
MAT 282 (3)	_____	_____

### IAI SOCIAL AND BEHAVIORAL SCIENCES (2 COURSES)

	Sem.	Grade
PSY 132 or Social Science Elective	_____	_____
ECO 201 or Social Science Elective	_____	_____

#### IAI Social and Behavioral Sciences Electives:

Anthropology: ANT 111, 202, 216, 240  
Economics: ECO 201, 202  
Geography: GEO 112  
History: HIS 103, 104, 201, 202  
Political Science: PSC 131, 211, 212, 213, 289  
Psychology: PSY 132, 200, 203, 262  
Sociology: SOC 133, 221, 263, 264

### IAI PHYSICAL SCIENCE (2 COURSES)

One course must include a lab.

	Sem.	Grade
PHY 155 (5)	_____	_____
BIO 225 (3) or Life Science Elective	_____	_____

#### Additional Associate in Science degree requirements:

PHY 156 (5) or PHY 121 (4)	_____	_____
MAT 111 (5) or MAT 116 (3)	_____	_____

## MAJOR AND GENERAL ELECTIVE REQUIREMENTS (IAI GECC and

major/elective credits must total a minimum of 64 hours, leaving 20 - 25 for major and/or general elective credits.

Consult with the transfer institution to determine if certain courses require a grade of "C" or higher, or if there is a minimum grade point average for admission to your declared major. Please select courses on this guide in accordance with the Articulation Notes for your transfer institution.

	Sem.	Grade
ORI 100 (1)	_____	_____
MAT 131 (5)	_____	_____
ELT 103 (4) or Elective	_____	_____
ELT 150 (4) or Elective	_____	_____
ELT 200 (5) or Elective	_____	_____
BUS 235 (3) or Elective	_____	_____
CPS 206 (4) or Elective	_____	_____
MAC 152 (2) or Elective	_____	_____
MAC 153 (2) or Elective	_____	_____
MAC 154 (2) or Elective	_____	_____
MAC 159 (2) or Elective	_____	_____

**ARTICULATION NOTES:** Consult the transfer institution for specific requirements. SIUC Transfer Information.

#### SIUC Transfer Information.

Offers an Electrical Engineering Technology specialization under Engineering Technology. Take PHY 155 (PHYS 203A/253A) and PHY 156 (PHYS 203B/253B). Take MAT 111 (MATH 111), 131 (MATH 150) and 120 or 282 (MATH 282). Take BUS 235 (MGMT 202) and CPS 206 (CS 202 or ECE 222). Take BIO 225 (BIOL 202). Take ELT 103 (EET 245), ELT 150 (EET 150) and ELT 200 (EET 238)

#### ISU Transfer Information:

Offers a B.S. in Engineering Technology under the Department Technology. Take MAC 152 and 153 (TEC 233) and MAC 154 and 159 (TEC 234). Take MAT 116 (MAT 120), MAT 282 or BUS 121 (MQM100), PHY 121 (PHY 105) and PSY 132 (PSY 110). Take nine additional credits of Engineering Technology electives. Select from ACC 200/201 (ACC 131), ECO 201 (ECO 101) and BUS 222 (FIL 185)

As a general graduation requirement an approved AMALI (formerly Global Studies) course is required. Select from ANT 111, 216, GEO 112 (GEO 135), HIS 103, 104, 213, PSC 120 (HIS 104a03), HUM 120, JPN 101 (JPN 111), JPN 102 (JPN 112), PHL 200, 260, PSC 212 (POL 151) PSC 213.

Engineering Technology majors are exempt from the SMT degree requirement.



John A. Logan College

# Associate in Science Degree in Mathematics

Transfer Curriculum 000AS0087  
Associate in Science: 64 Hrs. Min.  
Major Code: 1.1 270101B  
Effective Date: Fall 2019

## GENERAL EDUCATION (IAI GECC, 37-38 CREDITS)

The Illinois Articulation Initiative (IAI) General Education Core Curriculum (GECC) requires 12 to 13 courses from the following five areas. Courses selected to meet IAI GECC requirements may also meet course requirements for a specific major.

### IAI COMMUNICATIONS (3 COURSES)

	Sem.	Grade
ENG 101 or ENG 113 (C grade or higher)	_____	_____
ENG 102 (C grade or higher)	_____	_____
COM 115 Speech	_____	_____

### IAI HUMANITIES AND FINE ARTS (2 COURSES)

At least one course must be an IAI Fine Arts elective and one course must be an IAI Humanities elective.

	Sem.	Grade
Fine Arts Elective (3)	_____	_____
PHL 121 or Humanities Elective (3)	_____	_____

#### IAI Fine Arts Electives:

Art: ART 111, 220, 221, 291  
Literature: LIT 275  
Music: MUS 105, 225  
Theater: THE 113

#### IAI Humanities Electives:

Foreign Language: FRE 202, GER 202, SPN 202  
History: HIS 101, 102, 213  
Literature: LIT 210, 230, 235, 264, 280, 281, 284, 295  
Philosophy: PHL 111, 121, 131, 200, 260

### IAI MATHEMATICS (1 COURSE)

	Sem.	Grade
MAT 131 (5)	_____	_____

### IAI SOCIAL AND BEHAVIORAL SCIENCES (2 COURSES)

At least two different disciplines (course prefixes) must be represented.

	Sem.	Grade
Social Science Elective (3)	_____	_____
Social Science Elective (3)	_____	_____

#### IAI Social and Behavioral Sciences Electives:

Anthropology: ANT 111, 202, 216, 240  
Economics: ECO 201, 202  
Geography: GEO 112  
History: HIS 103, 104, 201, 202  
Political Science: PSC 131, 211, 212, 213, 289  
Psychology: PSY 132, 200, 203, 262  
Sociology: SOC 133, 221, 263, 264

### IAI PHYSICAL/LIFE SCIENCES (2 COURSES)

One course must be at least 4 credit hours and include a lab component.

	Sem.	Grade
BIO 101 (4) or Life Science Elective	_____	_____
PHY 205 (5) or Physical Science Elective	_____	_____

#### IAI Life Science Electives:

Biology: BIO 100, 101, 105, 110, 225  
Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B  
Life Science: SCI 215

#### IAI Physical Science Electives:

Chemistry: CHM 141, 151  
Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B  
Physical Science: PHS 102, 103, 105, 107  
Physics: PHY 121, 155, 205

## Additional Associate in Science Degree Requirements

(Courses should be applicable to the desired major)

	Sem.	Grade
MAT 201-(5)	_____	_____
PHY 206 or Physical or Life Science Elective	_____	_____

## MAJOR AND GENERAL ELECTIVE REQUIREMENTS (IAI GECC and major/elective credits must total a minimum of 64 hours, of which 24-25 must be general elective credits.)

Consult with the transfer institution to determine if certain courses require a grade of "C" or higher, or if there is a minimum grade point average for admission to your declared major. Please select courses on this guide in accordance with the Articulation Notes for your transfer institution.

	Sem.	Grade
ORI 100 (1)	_____	_____
CPS 206 (4) or Elective	_____	_____
MAT 202 (5)	_____	_____
MAT 205 (3) or General Elective	_____	_____
MAT 221 (3) or General Elective	_____	_____
PHY 205 (5) or General Elective	_____	_____
PHY 206 (5) or General Elective	_____	_____
Foreign Language (8) or General Electives	_____	_____

**ARTICULATION NOTES:** Consult the transfer institution for specific requirements

**IAI AND MATHEMATICS MAJOR PABNEL INFORMATION:** Take MAT 131, 201 and MAT 221 or MAT 205 to fulfill core. It is highly advised to complete the Calculus sequence at the same institution. Take CPS 206 and PHY 205. JALC Math suggests PHL 121-3 as the IAI GECC Humanities Elective

**SIUC TRANSFER INFORMATION:** For the B.S. degree under the College of Science take MAT 131, 201, 202, MAT 221. Take CPS 206. Take MAT 205 as a match to MATH 305 that fulfills a Group C requirement.

-Take a two course Foreign Language sequence at the college level to satisfy the College of Science Supportive Skill requirement. Three years of the same language with grades of C or higher in high school will also satisfy the Supportive Skills requirement. BIO 101 and 102 will satisfy the College of Science Biological Sciences requirement. PHY 205/206 can fulfill the Physical Sciences requirement for the College of Science.

**SIUE TRANSFER INFORMATION:** All program options under Mathematics and Statistics require completion of a core. Take MAT 131, 201 and 202. Take MAT 221. Take PHY 205. PHL 121 is recommended. MAT 223 and CS 145 will need to be completed at SIUE.

B.S. degree options include Actuarial Science, Applied Math, Pure Math, Statistics and Teacher Licensure. Depending on the Mathematical Studies option, additional courses could be taken at JALC that meet degree requirements.

**EIU TRANSFER INFORMATION:** Offers Mathematics with two concentrations (Applied Mathematics and Pure Mathematics)

- Take MAT 131, 201, 202 and 221. Also take CPS 206
- Take MAT 205 and CPS 215 for the Applied Mathematics option. Take MAT 205 for the Pure Mathematics option.
- Foreign Language-8 is required but two years in a single language in high school with "C" or grades will waive the one year/two course requirement.

**ISU TRANSFER INFORMATION:** Offers Mathematics with two concentrations (Applied Mathematics and Pure Mathematics)--Take MAT 131, 201, 202 and 221. Take CPS 206.

- Take MAT 205 and CPS 215 for the Applied Mathematics option. Take MAT 205 for the Pure Mathematics option.
- Foreign Language-8 hours is required but two years in a single language in high school with "C" or grades will waive the one year/two course requirement





John A. Logan College

# Associate in Science Degree in Physics

Transfer Curriculum 000AS0087  
Associate in Science: 64 Hrs.  
Major Code: 1.1400801B  
Effective Date: Fall 2019

## GENERAL EDUCATION (IAI GECC, 31-32 CREDITS)

The Illinois Articulation Initiative (IAI) General Education Core Curriculum (GECC) requires 12 to 13 courses. Courses selected to meet IAI GECC requirements may also meet course requirements for a specific major. The degree requirements as listed **do not complete IAI GECC core requirements.**

An additional 3 credits of approved Humanities or Fine Arts and 3 credits of Social Sciences are needed to complete the core. These additional courses may be taken as electives or upon transfer to the four year institution.

### IAI COMMUNICATIONS (3 COURSES)

	Sem.	Grade
ENG 101 or ENG 113 (C grade or higher)	_____	_____
ENG 102 (C grade or higher)	_____	_____
COM 115 Speech	_____	_____

### IAI HUMANITIES AND FINE ARTS (2 COURSES)

At least one course must be an IAI Fine Arts elective and one course must be an IAI Humanities elective.

	Sem.	Grade
Fine Arts Elective (3)	_____	_____
Humanities Elective (3)	_____	_____

#### IAI Fine Arts Electives:

Art: ART 111, 220, 221, 291

Literature: LIT 275

Music: MUS 105, 225

Theater: THE 113

#### IAI Humanities Electives:

Foreign Language: FRE 202, GER 202, SPN 202

History: HIS 101, 102, 213

Literature: LIT 210, 230, 235, 264, 280, 281, 284, 295

Philosophy: PHL 111, 121, 131, 200, 260

### IAI MATHEMATICS (1 COURSE)

	Sem.	Grade
MAT 131 (5)	_____	_____

### IAI SOCIAL AND BEHAVIORAL SCIENCES (2 COURSES)

At least two different disciplines (course prefixes) must be represented.

	Sem.	Grade
Social Science Elective (3)	_____	_____
Social Science Elective (3)	_____	_____

#### IAI Social and Behavioral Sciences Electives:

Anthropology: ANT 111, 202, 216, 240

Economics: ECO 201, 202

Geography: GEO 112

History: HIS 103, 104, 201, 202

Political Science: PSC 131, 211, 212, 213, 289

Psychology: PSY 132, 200, 203, 262

Sociology: SOC 133, 221, 263, 264

### IAI PHYSICAL/LIFE SCIENCES (2 COURSES)

One course must include a lab component.

	Sem.	Grade
BIO 101 or Life Science Elective (4-3)	_____	_____
PHY 205 (5)	_____	_____

#### IAI Life Science Electives:

Biology: BIO 100, 101, 105, 225

Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B

Life Science: SCI 215

#### IAI Physical Science Electives:

Chemistry: CHM 141, 151

Interdisciplinary: PHS 101 with PHS 111, SCI 210A and SCI 210B

Physical Science: PHS 102, 103, 105, 107

Physics: PHY 121, 155, 205

### Additional Associate in Science Degree Requirements

MAT 201(5)	_____	_____
PHY 206 (5) Fall only	_____	_____

**MAJOR AND GENERAL ELECTIVE REQUIREMENTS** (IAI GECC and major/elective credits **must total a minimum of 64 hours** for the degree.) Students should select elective hours that will allow them to complete this 64 hour requirement.) **Pre-requisite courses may be required before taking these electives. Consult with the Course Catalog and your advisor.**

	Sem.	Grade
ORI 100 (1)	_____	_____
CHM 151 or Elective (5-3)	_____	_____
CHM 152 or Elective (5-3)	_____	_____
MAT 202 or Elective (3)	_____	_____
MAT 221 or Elective (3)	_____	_____
Foreign Language or Elective	_____	_____

**ARTICULATION NOTES:** Consult with the transfer institution to assess if certain courses required a grade of "C" or higher, or if there is a minimum grade point average for admission to your declared major. Please select course on this guide in accordance with the Articulation Notes for your transfer institution.

#### ARTICULATION NOTES

The Associate in Science degree by designed does not fulfill the complete IAI GECC package. To transfer with the IAI GECC component complete, you will need to select an additional course under the IAI Humanities and Fine Arts area and one additional course posted as an IAI Social and Behavioral Sciences course.

#### IAI PHYSICS MAJOR Panel INFORMATION

Take PHY 205 (IAI PHY 911), PHY 206 (PHY 912), MAT 131 (MTH 901) and CHM 151 (CHM 911).

#### SIUC TRANSFER INFORMATION

SIUC offers a B.S. degree in Physics with four specializations (Traditional Physics, Biomedical Physics, Computational Physics and Materials and Nanophysics

For the Traditional Specialization, take CHM 151 (CHEM 200/201), MAT 131 (MATH 150), MAT 221 (MATH 221), MAT 201 (MATH 250) and MAT 202 (MATH 305). Take PHY 205 (PHYS 205A) and PHY 206 (PHYS 255B). Take CPS 202 (CS 215) and CPS 215 (CS 220) as physics elective credit.

The College of Science Academic Requirements not already covered include: Biological Science, select one from BIO 100, 101, 102, 105, 205, 206 or 225. Supportive Skills, select ENG 113 (with ENG 10/102. ENG 113 substitutes for ENG 291 OR MAT 120 or 129 for MATH 282 OR a semester or two of a foreign language (FRE 101/102, GER 101/102 or SPN 101/102)

#### SIUE TRANSFER INFORMATION

SIUE offers a B.S. degree in Physics.

Take MAT 131(MATH 150), MAT 201 (MATH 152), MAT 202 (MATH 250), MAT 205 (MATH 305) and MAT 221 (MATH 321). Take COM 115 (ACS 101), PHL 121 (RA 101), PHY 205 (PHYS 151/151L), PHY 206 (PHYS 152/152L). CHEM 131, 135, PHYS 201/201L and CS 145 are also required but currently a JALC equivalent if not available.

#### ISU TRANSFER INFORMATION

ISU offers a B.B. degree in Physics

Take PHY 205 (PHY 110), PHY 206 (PHY 111), PHY 202 (PHY 220), MAT 131 (MAT 145), MAT 201 (MAT 146), MAT 202 (MAT 147) and MAT 221 (MAT175). Take FRE 101/102 or GER 101/102 or SPN 101/102to satisfy the LAN 111/112 requirement. Note: ASL/IPP 141/142 will also satisfy this LAN requirement. Take CHM 151(CHE 140) and SHM 152 (CHE 141). The SMT course is satisfy by coursework already mentioned. To meet the AMALI requirement, take one of

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the following (ANT 111, 216, GEO112, HIS 103, 104, 213, HUM 120, PHL 200,260, PSC 120, 212 or 213).

#### EIU TRANSFER INFORMATION

EIU offers a B.S. degree in Physics. Options are also available in Astronomy, Computational Physics and Engineering Physics

For the general Physics program, take ENG 101/102 (ENG 1001G/1002G), COM 115 (CMN 1310G), PHY 205 (PHY 1351G/1352G), PHY 206 (PHY 1361/1362), CHM 151 (CHM 1310G/1315G), CHM 152 (CHM 1410/1415), MAT 131 (MAT 1441G, MAT 201 (MAT 2442) and MAT 202 (MAT 2443). Take two semesters of a single World Language (FRE 101/102 as WLF 1101/1102 or GER 101/102 as WLG 1101/1102 or SPN 101/102 as WLS 1101/1102). Within the IAI course selection, one course from either Humanities/Fine Arts or Social/Behavioral Sciences must be culturally diverse (LIT 284, 295, ANT 102, SOC 215 or 221)

#### UIUC TRANSFER INFORMATION

UIUC offers a B.S. degree in Physics. Effective Fall 2019, transfer applicants must demonstrate subject mastery by earning a minimum of a "B" grade in all required courses.

Take CHM 151 (CHEM 102/103), MAT 131 (MATH 220), MAT 201 (MATH 231), MAT 202 (MATH 241- a UIUC bridge course -MATH 292 must also be completed). (note: the calculus sequence should be completed prior to transfer). Take PHY 205 (PHYS 211) and PHY 206 (PHYS 212). Take CPS 206 (CS 101).

The College of Liberal Arts and Sciences requires the completion through the fourth level of a single foreign language (FRE 101/102/ 201/ 202 for FR 101/102/103/104 or GER 101/102/201/202 for GER 101/102/103/104 or SPN 101/102/201/202 for SPAN 101/102/130/ UF4-2)





John A. Logan College

# Associate in Science Degree in Pre-Chiropractic

Transfer Curriculum 000AS0087  
Associate in Science: 63 Hrs.  
Major Code: 1.1 511106  
Effective Date: Fall 2019

## GENERAL EDUCATION (IAI GECC, 37-38 CREDITS)

The Illinois Articulation Initiative (IAI) General Education Core Curriculum (GECC) requires 12 to 13 courses. Courses selected to meet IAI GECC requirements may also meet course requirements for a specific major. The degree requirements as listed **do not complete IAI GECC core requirements.** An additional 3 credits of approved Humanities or Fine Arts and 3 credits of Social Sciences are needed to complete the core. These additional courses may be taken as electives or upon transfer to the four year institution.

### IAI COMMUNICATIONS (3 COURSES)

	Sem.	Grade
ENG 101 or ENG 113 (C grade or higher)	_____	_____
ENG 102 (C grade or higher)	_____	_____
COM 115 Speech	_____	_____

### IAI HUMANITIES AND FINE ARTS (2 COURSES)

At least one course must be an IAI Fine Arts elective and one course must be an IAI Humanities elective.

	Sem.	Grade
Fine Arts Elective (3)	_____	_____
PHL 121 or Humanities Elective (3)	_____	_____

#### IAI Fine Arts Electives:

Art: ART 111, 220, 221, 291  
Literature: LIT 275  
Music: MUS 105, 225  
Theater: THE 113

#### IAI Humanities Electives:

Foreign Language: FRE 202, GER 202, SPN 202  
History: HIS 101, 102, 213  
Literature: LIT 210, 230, 235, 264, 280, 281, 284, 295  
Philosophy: PHL 111, 121, 131, 200, 260

### IAI MATHEMATICS (1 COURSE)

	Sem.	Grade
Math Elective	_____	_____

#### IAI Mathematics Electives:

MAT 112, MAT 113, MAT 116, MAT 117, MAT 119, MAT 120, MAT 125/CPS 202, MAT 131, MAT 201, MAT 202, MAT 282

### IAI SOCIAL AND BEHAVIORAL SCIENCES (2 COURSES)

At least two different disciplines (course prefixes) must be represented.

	Sem.	Grade
PSY 132 (3)	_____	_____
Social Science Elective (3)	_____	_____

#### IAI Social and Behavioral Sciences Electives:

Anthropology: ANT 111, 202, 216, 240  
Economics: ECO 201, 202  
Geography: GEO 112  
History: HIS 103, 104, 201, 202  
Political Science: PSC 131, 211, 212, 213, 289  
Psychology: PSY 132, 200, 203, 262  
Sociology: SOC 133, 221, 263, 264

### IAI PHYSICAL/LIFE SCIENCES (2 COURSES)

One course must include a lab component.

	Sem.	Grade
BIO 101 (4)	_____	_____
PHY 155 (5)	_____	_____

### Additional Associate in Science Degree requirements (Courses should be applicable to your intended majors)

	Sem.	Grade
MAT 108 (4)	_____	_____
BIO 102 (4)	_____	_____

**MAJOR AND GENERAL ELECTIVE REQUIREMENTS 21+ (IAI GECC and major/elective credits must total a minimum of 63 hours for the degree. Students should select elective hours that will allow them to complete this 62 hour requirement.)** Pre-requisite courses may be required before taking these electives. Consult with the Course Catalog and your advisor.

	Sem.	Grade
ORI 100 (1)	_____	_____
MAT 109 (3)	_____	_____
CHM 151 (5)	_____	_____
CHM 152 (5)	_____	_____
CHM 201 (5)	_____	_____
CHM 202 (5)	_____	_____
PHY 156 (5)	_____	_____

**ARTICULATION NOTES:** Consult with the transfer institution to assess if certain courses require a grade of "C" or higher, or if there is a minimum grade point average for admission to your declared major. Please select courses on this guide in accordance with the Articulation Notes for your transfer institution.

**SIUC TRANSFER INFORMATION:** Pre-Chiropractic is not a major. In some cases, you must choose a major in which to earn a baccalaureate degree.

The SIUC Health Professions Information Office suggests basic course requirements for Illinois and Missouri Chiropractic Schools.

--Take BIO 101 and 102. Take CHM 151, 152, 201, and 202. Take MAT 108 and 109. Take PHY 155 and 156. Take PSY 132. PHL 121 is recommended.



John A. Logan College

# Associate in Science Degree in Pre-Pharmacy

Transfer Curriculum 000AS0087  
Associate in Science: 64 Hrs.  
Major Code: 1.1511103B  
Effective Date: Fall 2019

## GENERAL EDUCATION (IAI GECC, 37-38 CREDITS)

The Illinois Articulation Initiative (IAI) General Education Core Curriculum (GECC) requires 12 to 13 courses. Courses selected to meet IAI GECC requirements may also meet course requirements for a specific major. The degree requirements as listed **do not complete IAI GECC core requirements.** An additional 3 credits of approved Fine Arts and 3 credits of Social Sciences are needed to complete the core. These additional courses may be taken as electives or upon transfer to the four year institution.

### IAI COMMUNICATIONS (3 COURSES)

	Sem.	Grade
ENG 101 or ENG 113 (C grade or higher)	_____	_____
ENG 102 (C grade or higher)	_____	_____
COM 115 Speech	_____	_____

### IAI HUMANITIES AND FINE ARTS (2 COURSES)

At least one course must be an IAI Fine Arts elective and one course must be an IAI Humanities elective.

	Sem.	Grade
PHL 111 or PHL 121 or PHL 131 (3)	_____	_____
IAI Literature Course (3)	_____	_____

**IAI Literature Electives:** LIT 210, 230, 235, 264, 275, 280, 281, 284, 295

### IAI MATHEMATICS (1 COURSE)

	Sem.	Grade
MAT 282(3)	_____	_____

### IAI SOCIAL AND BEHAVIORAL SCIENCES (2 COURSES)

At least two different disciplines (course prefixes) must be represented.

	Sem.	Grade
PSY 132 or SOC 133 (3)	_____	_____
ECO 201 or ECO 202 (3)	_____	_____

### IAI PHYSICAL/LIFE SCIENCES (2 COURSES)

One course must be at least 4 credit hours and include a lab component.

	Sem.	Grade
BIO 101 (4)	_____	_____
PHY 155 (5)	_____	_____

### Additional Associate in Science Degree Requirements

(Course should be applicable to desired major)

	Sem.	Grade
BIO 102 (4)	_____	_____
MAT 131 (5)	_____	_____

**MAJOR AND GENERAL ELECTIVE REQUIREMENTS** (IAI GECC and major/elective credits must total a minimum of 64 hours for the degree. Select courses from this listing with consideration to Articulation Notes)

	Sem.	Grade
ORI 100 (1)	_____	_____
BIO 205 (4)	_____	_____
BIO 206 (4)	_____	_____
BIO 226 (4)	_____	_____
CHM 151 (5)	_____	_____
CHM 152 (5)	_____	_____
CHM 201 (5)	_____	_____
CHM 202 (5)	_____	_____

**ARTICULATION NOTES:** Consult with your academic advisor and/or the transfer institution to assess if certain courses require a grade of "C" or higher, or if there is a minimum grade point average for admission to your declared major.

**SIUE TRANSFER INFORMATION:** This guide is prepared to align with the SIUE School of Pharmacy curriculum and the 2 plus 4 degree option. These courses are required even though an Associate in Science degree has been earned. It should be understood the completion of these pre-pharmacy course requirements does not guarantee admission to the SIUE School of Pharmacy. -Take BIO 101, 102, 205, 206 and 226. Take CHM 151, 152, 201 and 202. Take MAT 131. Take PHY 155 and 156 (note: Students entering the SIUE program in 2016 or 2017 can take MAT 282 in lieu of PHY 156. Students entering the Pharmacy program in 2018 or later take MAT 282). Take ECO 201 or 202. Take PSY 132 or SOC 133. Select one Philosophy from PHL 111, 121, or 131. Select one Humanities course from the IAI LIT courses.

### Other

\*If you elect to transfer to an institution other than SIUE and one that offers Pharmacy, consult with your academic advisor and/or the transfer institution regarding degree program options and course recommendations.



John A. Logan College

# Associate in Science Degree in Pre-Physical Therapy

Transfer Curriculum 000AS0087  
Associate in Science: 64 Hrs.  
Major Code: 1.1 511109  
Effective Date: Fall 2019

## GENERAL EDUCATION (IAI GECC, 31-32 CREDITS)

The Illinois Articulation Initiative (IAI) General Education Core Curriculum (GECC) requires 12 to 13 courses. Courses selected to meet IAI GECC requirements may also meet course requirements for a specific major. The degree requirements as listed do **not** complete IAI GECC core requirements. An additional 3 credits of approved Humanities or Fine Arts **and** 3 credits of Social Sciences are needed to complete the core. The additional courses may be taken as electives or upon transfer to the four year institution.

### IAI COMMUNICATIONS (3 COURSES)

	Sem.	Grade
ENG 101 or ENG 113 (C grade or higher)	_____	_____
ENG 102 (C grade or higher)	_____	_____
COM 115 Speech	_____	_____

### IAI HUMANITIES AND FINE ARTS (2 COURSES)

At least one course must be an IAI Fine Arts elective and one course must be an IAI Humanities elective.

	Sem.	Grade
Fine Arts Elective (3)	_____	_____
PHL 111 (3)	_____	_____

#### IAI Fine Arts Electives:

Art: ART 111, 220, 221, 291

Literature: LIT 275

Music: MUS 105, 225

Theater: THE 113

#### IAI Humanities Electives:

Foreign Language: FRE 202, GER 202, SPN 202

History: HIS 101, 102, 213

Literature: LIT 210, 230, 235, 264, 280, 281, 284, 295

Philosophy: PHL 111, 121, 131, 200, 260

### IAI MATHEMATICS (1 COURSE)

	Sem.	Grade
MAT 282 (3)	_____	_____

### IAI SOCIAL AND BEHAVIORAL SCIENCES (2 COURSES)

At least two different disciplines (course prefixes) must be represented.

	Sem.	Grade
PSY 132 (3)	_____	_____
SOC 133 (3)	_____	_____

#### IAI Social and Behavioral Sciences Electives:

Anthropology: ANT 111, 202, 216, 240

Economics: ECO 201, 202

Geography: GEO 112

History: HIS 103, 104, 201, 202

Political Science: PSC 131, 211, 212, 213, 289

Psychology: PSY 132, 200, 203, 262

Sociology: SOC 133, 221, 263, 264

### IAI PHYSICAL/LIFE SCIENCES (2 COURSES)

One course must be at least 4 credit hours and include a lab component.

	Sem.	Grade
BIO 101 (4)	_____	_____
PHY 155 (5)	_____	_____

## Additional Associate in Science Degree requirements

(Courses should be applicable to desired major)

	Sem.	Grade
BIO 102 (4)	_____	_____
MAT 108 (4)	_____	_____

**MAJOR AND GENERAL ELECTIVE REQUIREMENTS** (IAI GECC and major/elective credits **must total a minimum of 64 hours** for the degree. Students should select elective hours that will allow them to complete this 64 hour requirement.) **Pre-requisite courses may be required before taking these electives. Consult with the Course Catalog and your advisor.**  
**Major Specific General Electives for B.S. degree.**

	Sem.	Grade
ORI 100 (1)	_____	_____
CHM 151 or CHM 141 (5-4)	_____	_____
CHM 152 or CHM 142 (5-4)	_____	_____
BIO 105 or BIO 205 (4)	_____	_____
MAT 131 (5)	_____	_____
MAT 109 (4)	_____	_____
PHY 156 (5)	_____	_____
HIT 217 (3)	_____	_____
PSY 270 (3)	_____	_____

**ARTICULATION NOTES:** Consult with the transfer institution to assess if certain courses require a grade of "C" or higher, or if there is a minimum grade point average for admission to your declared major. Please select courses on this guide in accordance with the Articulation Notes for your transfer institution.

**SIUC TRANSFER INFORMATION:** Physical Therapy is not a major at SIUC. Students must satisfy certain course requirements and choose a major in which to earn a baccalaureate degree. Physical Therapy Programs are offered on the doctoral level. Typical undergraduate majors include Biological Sciences/Biomed Track, Physiology, Psychology, Therapeutic Recreation, Kinesiology (Exercise Science).

-BIO 101 and 102. CHM 151 and 152 or 141 and 142. Take PHL 111. Take MAT 108, 109, and 282. MAT 131 (required at UIC and Northwestern). Take PHY 155 and 156. Take BIO 105 or 205. Take PSY 132 and 270 and SOC 133.

--Recommendations include HIT 217 (required by University of Evansville and Northwestern).

--Current certification in first aid and CPR are required by some schools.

Physical Therapy experiences (40 to 100 hours) of observing, volunteering or working are required to be completed at the time of application. These experiences must be documented by physical therapists licensed in the US. It is recommended that experiences represent different specialties. Opportunities exist in hospitals, nursing homes, Easter Seals, United Cerebral Palsy, March of Dimes, Visiting Nurses Association, health maintenance organizations or standalone physical therapy clinics.



John A. Logan College

# Associate in Science Degree in Pre-Physician Assistant

Transfer Curriculum 000AS0087  
Associate in Science: 63 Hrs.  
Major Code: 1.1511102  
Effective Date: Fall 2019

## GENERAL EDUCATION (IAI GECC, 31-32 CREDITS)

The Illinois Articulation Initiative (IAI) General Education Core Curriculum (GECC) requires 12 to 13 courses. Courses selected to meet IAI GECC requirements may also meet course requirements for a specific major. **Degree requirements have been revised for new students for the fall 2016 term.** The degree requirements as listed **do not complete IAI GECC core requirements.** An additional 3 credits of approved Humanities or Fine Arts and 3 credits of Social Sciences are needed to complete the core. These additional courses may be taken as electives or upon transfer to the four year institution.

### IAI COMMUNICATIONS (3 COURSES)

	Sem.	Grade
ENG 101 or ENG 113 (C grade or higher)	_____	_____
ENG 102 (C grade or higher)	_____	_____
COM 115 Speech	_____	_____

### IAI HUMANITIES AND FINE ARTS (2 COURSES)

At least one course must be an IAI Fine Arts elective and one course must be an IAI Humanities elective.

	Sem.	Grade
Fine Arts Elective (3)	_____	_____
Humanities Elective (3)	_____	_____

#### IAI Fine Arts Electives:

Art: ART 111, 220, 221, 291  
Literature: LIT 275  
Music: MUS 105, 225  
Theater: THE 113

#### IAI Humanities Electives:

Foreign Language: FRE 202, GER 202, SPN 202  
History: HIS 101, 102, 213  
Literature: LIT 210, 230, 235, 264, 280, 281, 284, 295  
Philosophy: PHL 111, 121, 131, 200, 260

### IAI MATHEMATICS (1 COURSE)

	Sem.	Grade
MAT 282 (3)	_____	_____

### IAI SOCIAL AND BEHAVIORAL SCIENCES (2 COURSES)

At least two different disciplines (course prefixes) must be represented.

	Sem.	Grade
PSY 132 (3)	_____	_____
Social Science Elective (3)	_____	_____

#### IAI Social and Behavioral Sciences Electives:

Anthropology: ANT 111, 202, 216, 240  
Economics: ECO 201, 202  
Geography: GEO 112  
History: HIS 103, 104, 201, 202  
Political Science: PSC 131, 211, 212, 213, 289  
Psychology: PSY 132, 200, 203, 262  
Sociology: SOC 133, 221, 263, 264

### IAI PHYSICAL/LIFE SCIENCES (2 COURSES)

One course must include a lab component.

	Sem.	Grade
BIO 101 (4)	_____	_____
CHM 151 (5)	_____	_____

### Additional Associate in Science Degree requirements

(Courses should be applicable to your intended major)

	Sem.	Grade
MAT Elective (3 to 5 credits)	_____	_____
BIO 205 (4)	_____	_____

**MAJOR AND GENERAL ELECTIVE REQUIREMENTS** (IAI GECC and major/elective credits must total a minimum of 63 hours for the degree. Students should select elective hours that will allow them to complete this 62 hour requirement.) **Pre-requisite courses may be required before taking these electives. Consult with the Course Catalog and your advisor.**

	Sem.	Grade
ORI 100 (1)	_____	_____
HIT 217 (3)	_____	_____
BIO 206 (4)	_____	_____
<b>Credits applicable to intended BS Degree</b>		
Elective	_____	_____
Elective	_____	_____
Elective	_____	_____
Elective	_____	_____
Elective	_____	_____

**ARTICULATION NOTES:** Consult the transfer institution to assess if certain courses require a grade of "C" or higher, or if there is a minimum grade point average for admission to your declared major. Please select courses on this guide in accordance with the Articulation Notes for your transfer institution.

**SIUC TRANSFER INFORMATION:** Applicants to the seven semester Master of Science Physician Assistant Studies (MSPA) program must hold a **Bachelor's degree from an accredited college or university.**

--Only courses with grade of C or better will be accepted. The prerequisite course GPA, as calculated by SIU, must be at least a 3.2 (A=4.0).

--Take HIT 217 (AH 105), CHM 151 (CHEM 200, 201, 202), PSY 132, BIO 101, 205 and 206. Take MAT 282. Take additional credits (15-17) that are applicable to the intended Bachelor of Science major.

--BLS certification in CPR for health care providers is required.

--Applicants should have significant health care experiences, with preference given to candidates with at least 2000 of documented work. This experience should be in conjunction with shadowing a licensed, certified practicing Physician Assistant.

--Applicants must submit test scores from either the GRE or MCAT.

--Applicants need to be proficient in the use of computers and especially with software applications such as Microsoft Word.

--The application process is open once a year and begins on April 22<sup>nd</sup>.

--Those invited to join the PA program are required to pass a criminal background check through CertifiedBackground.com prior to matriculation.



# Associate in Science Degree

in

## Pre-Professional Dental, Medicine, Optometry, and Podiatry

Transfer Curriculum 000AS0087  
Associate in Science: 63 Hrs.  
Major Code: 1.1511199B  
Effective Date: Fall 2019

### GENERAL EDUCATION (IAI GECC, 37-38 CREDITS)

The Illinois Articulation Initiative (IAI) General Education Core Curriculum (GECC) requires 12 to 13 courses. Courses selected to meet IAI GECC requirements may also meet course requirements for a specific major. **Degree requirements have been revised for new students for the fall 2016 term.** The degree requirements as listed do **not** complete IAI GECC core requirements. An additional 3 credits of approved Humanities or Fine Arts and 3 credits of Social Sciences are needed to complete the core. These additional courses may be taken as electives or upon transfer to the four year institution.

#### IAI COMMUNICATIONS (3 COURSES)

	Sem.	Grade
ENG 101 or ENG 113 (C grade or higher)	_____	_____
ENG 102 (C grade or higher)	_____	_____
COM 115 Speech	_____	_____

#### IAI HUMANITIES AND FINE ARTS (2 COURSES)

At least one course must be an IAI Fine Arts elective and one course must be an IAI Humanities elective.

	Sem.	Grade
Fine Arts Elective (3)	_____	_____
PHL 121 (3)	_____	_____

#### IAI Fine Arts Electives:

Art: ART 111, 220, 221, 291  
Literature: LIT 275  
Music: MUS 105, 225  
Theater: THE 113

#### IAI Humanities Electives:

Foreign Language: FRE 202, GER 202, SPN 202  
History: HIS 101, 102, 213  
Literature: LIT 210, 230, 235, 264, 280, 281, 284, 295  
Philosophy: PHL 111, 121, 131, 200, 260

#### IAI MATHEMATICS (1 COURSE)

	Sem.	Grade
MAT 282 (3)	_____	_____

#### IAI SOCIAL AND BEHAVIORAL SCIENCES (2 COURSES)

At least two different disciplines (course prefixes) must be represented.

	Sem.	Grade
PSY 132 (3)	_____	_____
SOC 133 (3)	_____	_____

#### IAI Physical/Life Sciences (2 courses)

One course must include a lab component.

	Sem.	Grade
BIO 101 (4)	_____	_____
PHY 155 (5)	_____	_____

#### Additional Associate in Science Degree requirements

(Course should be applicable to the desired major)

	Sem.	Grade
BIO 102 (4)	_____	_____
MAT 108 (4)	_____	_____

**MAJOR AND GENERAL ELECTIVE REQUIREMENTS** (IAI GECC and major/elective credits **must total a minimum of 63 hours** for the degree. Students should select elective hours that will allow them to complete this 63 hour requirement, along with consideration to the Articulation Notes.) **Pre-requisite courses may be required before taking these electives. Consult with the Course Catalog and your advisor.**

	Sem.	Grade
ORI 100 (1)	_____	_____
MAT 109 (3)	_____	_____
PHY 156 (5)	_____	_____
PSY 200 (3)	_____	_____
CHM 151 (5)	_____	_____
CHM 152 (5)	_____	_____
CHM 201 (5)	_____	_____
CHM 202 (5)	_____	_____

**ARTICULATION NOTES:** Consult with the transfer institution to assess if certain courses require a grade of "C" or higher, or if there is a minimum grade point average for admission to your declared major. Please select courses on this guide in accordance with the Articulation Notes for your transfer institution.

**SIUC TRANSFER INFORMATION:** According to the Health Professions information Office, there are basic course requirements applicable to US Dental, Medicine, Optometry and Podiatry Schools. In addition, some courses are recommended/required to be well prepared for the revised MCAT.

--Take BIO 101 and 102. Take CHM 151, 152, 201 and 202. Take MAT 108 and 109. Take PHY 155 and 156.

--Strongly recommended courses include: MAT 282, PHL 121, PSY 132, SOC 133 and PSY 200.

Students will need to declare a major. Popular majors include Physiology, Biological Sciences/Biomed Track, Microbiology and Chemistry. Non Science major students must have a strong science GPA to be competitive.



John A. Logan College

# Associate in Science Degree in Pre-Veterinary Medicine

Transfer Curriculum 000AS0087  
Associate in Science: 63 Hrs.  
Major Code: 1.1511104  
Effective Date: Fall 2019

## GENERAL EDUCATION (IAI GECC, 31-32 CREDITS)

The Illinois Articulation Initiative (IAI) General Education Core Curriculum (GECC) requires 12 to 13 courses. Courses selected to meet IAI GECC requirements may also meet course requirements for a specific major. **Degree requirements have been revised for new students for the fall 2016 term.** The degree requirements as listed do **not complete IAI GECC core requirements.** An additional 3 credits of approved Humanities or Fine Arts and 3 credits of Social Sciences are needed to complete the core. The additional courses may be taken as electives or upon transfer to the four year institution.

### IAI COMMUNICATIONS (3 COURSES)

	Sem.	Grade
ENG 101 or ENG 113 (C grade or higher)	_____	_____
ENG 102 (C grade or higher)	_____	_____
COM 115 Speech	_____	_____

### IAI HUMANITIES AND FINE ARTS (2 COURSES)

At least one course must be an IAI Fine Arts elective and one course must be an IAI Humanities elective.

	Sem.	Grade
Fine Arts Elective (3)	_____	_____
Humanities Elective (3)	_____	_____

#### IAI Fine Arts Electives:

Art: ART 111, 220, 221, 291  
Literature: LIT 275  
Music: MUS 105, 225  
Theater: THE 113

#### IAI Humanities Electives:

Foreign Language: FRE 202, GER 202, SPN 202  
History: HIS 101, 102, 213  
Literature: LIT 210, 230, 235, 264, 280, 281, 284, 295  
Philosophy: PHL 111, 121, 131, 200, 260

### IAI MATHEMATICS (1 COURSE)

	Sem.	Grade
MAT 282 or Math Elective (3-5)	_____	_____

MAT 112, MAT 113, MAT 116, MAT 117, MAT 119, MAT 120, Mat 125/CPS 202, MAT 131, Mat 201, MAT 202, MAT 282

### IAI SOCIAL AND BEHAVIORAL SCIENCES (2 COURSES)

At least two different disciplines (course prefixes) must be represented.

	Sem.	Grade
Social Science Elective (3)	_____	_____
Social Science Elective (3)	_____	_____

#### IAI Social and Behavioral Sciences Electives:

Anthropology: ANT 111, 202, 216, 240  
Economics: ECO 201, 202  
Geography: GEO 112  
History: HIS 103, 104, 201, 202  
Political Science: PSC 131, 211, 212, 213, 289  
Psychology: PSY 132, 200, 203, 262  
Sociology: SOC 133, 221, 263, 264

### IAI PHYSICAL/LIFE SCIENCES (2 COURSES)

One course must be at least 4 credit hours and include a lab component.

	Sem.	Grade
BIO 101 (4)	_____	_____
PHY 155 (5)	_____	_____

## Additional Associate in Science Degree requirements

(Courses should be applicable to desired major)

	Sem.	Grade
BIO 102 (4)	_____	_____
MAT 108 (4)	_____	_____

**MAJOR AND GENERAL ELECTIVE REQUIREMENTS** (IAI GECC and major/elective credits **must total a minimum of 62 hours** for the degree. Students should select elective hours that will allow them to complete this 63 hour requirement.) **Pre-requisite courses may be required before taking these electives. Consult with the Course Catalog and your advisor.**

	Sem.	Grade
ORI 100 (1)	_____	_____
MAT 109 (3)	_____	_____
CHM 151 (5)	_____	_____
CHM 152 (5)	_____	_____
CHM 201 (5)	_____	_____
PHY 156 (5)	_____	_____

**ARTICULATION NOTES:** Consult with the transfer institution to assess if certain courses require a grade of "C" or higher, or if there is a minimum grade point average for admission to your declared major. Please select courses on this guide in accordance with the Articulation Notes for your transfer institution.

**SIUC TRANSFER INFORMATION:** Pre-Veterinary Medicine is not a major at SIUC. Students must choose a major in which to earn a baccalaureate degree. At SIUC, both Zoology and Animal Science offer pre-veterinary medicine tracks.

The SIUC Health Professions Information Office suggests basic course requirements for veterinary medicine include:

--Take BIO 101 and 102. Take CHM 151, 152, and 201. Take MAT 108 and 109. Take PHY 155 and 156.

-Depth and breadth of experiences with animals, including working for and/or observing a veterinarian, is essential. Consider observing at a veterinarian's office, working as a kennel care giver or assistant, volunteering at a wildlife refuge and animal shelter. You may need a letter of recommendation and documentation of related experiences.

For the Bachelor of Science in Zoology-Pre-Veterinary Science specialization, take MAT 282 or JRN 201 to satisfy the Supportive Skills requirement, Take CIS 207 or MAT 116 or MAT 117 to satisfy a degree requirement.





John A. Logan College

# Basic Certificate in Automotive Services Technology

Career Curriculum 00AST0054

Minimum Hours: 24

Major Code: 1.2 470604

Effective Date: Fall 2022

## FIRST YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
AST	100	Automotive Orientation and Safety	2	_____
AST	101	Automotive Maintenance & Light Repair	3	_____
AST	183	Brakes, Steering and Suspension I	3	_____
AST	180	Electrical I	3	_____
			<u>11</u>	

## FIRST YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
AST	170	Engine Repair	3	_____
AST	171	Engineer Performance I	3	_____
AST	190	Electrical II	3	_____
AST	191	Automotive Service Lab I	4	_____
			<u>13</u>	

## NOTES AND INFORMATION

The minimum general education component for the Associate in Applied Science degree requires satisfactory completion of at least 15 semester credits of coursework distributed over the disciplines of Communications, Mathematics, Arts and Humanities, Physical and Life Sciences, and Social and Behavioral Sciences. The curriculum guide for each Associate in Applied Science degree program will spell out the course requirements or options available for satisfying the general education component. With appropriate justification and in consultation with your academic advisor, a request to substitute a course for one recommended in this guide may be granted with the appropriate approvals from the Department Chair, Dean for Instruction and Vice-President for Instruction. However, no substitutions are allowed in Groups I-III (General Education Component; GECC) of the curriculum guide (see the Associate in Applied Science general degree requirements worksheet in the John A. Logan College Catalog).

Students planning to transfer and pursue a baccalaureate degree should, when given a choice, enroll in the general education course that is IAI GECC approved and articulated with participating Illinois institutions.

All students registered for Automotive Services Technology classes will be required to furnish a basic tool set. The set includes the following:

### Drive Sockets (1/4" sq.)

- (10) 6-pt Standard (5/32" through 1/2")
- (10) 6-pt. Metric (4, 5, 5.5, 6 through 12 mm)
- (1) Quick Release Ratchet
- (1) Extension

### Drive Sockets (3/8" sq.)

- (9) 6-pt. or 12-pt. Standard (3/8" through 7/8")
- (10) 6-pt. or 12-pt. Metric (10mm through 19mm)
- (1) Ratchet
- (1) Extension (3")
- (1) Extension (6")

### Drive Sockets (1/2" sq.)

- (4) 6-pt. or 12-pt. Standard (15/16", 1", 1 1/16", 1 1/8")
- (4) 6-pt. or 12-pt. Metric (21mm, 22mm, 24mm, 27mm)
- (1) Ratchet
- (1) Extension (3")

### Wrenches (combination)

- (7) Standard (3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4")
- (7) Metric (10mm, 12mm, 13mm, 14mm, 15mm, 17mm, 19mm)

### Screwdrivers

- (2) Slotted (1 small, 1 large)
- (2) Phillips (1 small, 1 large)

### Pliers

- (1) Slip Joint Pliers
- (1) Diagonal Cutting

### Additional Tools

- (1) Hammer
- (1) Locking Tool Box

**Additional Information:** Principles of design and operation provide for an exact appreciation of the functions of automotive units. Coordinated laboratory work develops the ability to execute diagnostic tests and complete the repairs that are indicated. The curriculum prepares students for employment as entry level oil change technician, tire service stores, as well as independent or self-employment garages.

**Career Opportunities:** self-employment, oil change shops, tire stores, independent garages, and part-related businesses.

*John A. Logan College reserves the right to modify this curriculum guide as needed. Please verify with your academic advisor the accuracy and time lines of this document.*





John A. Logan College

# Hybrid/EV Certificate in Automotive Services Technology

Career Curriculum 00AST0056

Minimum Hours 5

Major Code: 1.2 470604

Effective Date: Fall 2022

## SECOND YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
AST	201	Hybrid/EV History and Safety	2	_____
AST	202	Hybrid/EV Diagnostic and Service	3	_____
			5	

## NOTES AND INFORMATION

The minimum general education component for the Associate in Applied Science degree requires satisfactory completion of at least 15 semester credits of coursework distributed over the disciplines of Communications, Mathematics, Arts and Humanities, Physical and Life Sciences, and Social and Behavioral Sciences. The curriculum guide for each Associate in Applied Science degree program will spell out the course requirements or options available for satisfying the general education component. With appropriate justification and in consultation with your academic advisor, a request to substitute a course for one recommended in this guide may be granted with the appropriate approvals from the Department Chair, Dean for Instruction and Vice-President for Instruction. However, no substitutions are allowed in Groups I-III (General Education Component; GECC) of the curriculum guide (see the Associate in Applied Science general degree requirements worksheet in the John A. Logan College Catalog).

Students planning to transfer and pursue a baccalaureate degree should, when given a choice, enroll in the general education course that is IAI GECC approved and articulated with participating Illinois institutions.

All students registered for Automotive Services Technology classes will be required to furnish a basic tool set. The set includes the following:

### Drive Sockets (1/4" sq.)

- (10) 6-pt Standard (5/32" through 1/2")
- (10) 6-pt. Metric (4, 5, 5.5, 6 through 12 mm)
- (1) Quick Release Ratchet
- (1) Extension

### Drive Sockets (3/8" sq.)

- (9) 6-pt. or 12-pt. Standard (3/8" through 7/8")
- (10) 6-pt. or 12-pt. Metric (10mm through 19mm)
- (1) Ratchet
- (1) Extension (3")
- (1) Extension (6")

### Drive Sockets (1/2" sq.)

- (4) 6-pt. or 12-pt. Standard (15/16", 1", 1 1/16", 1 1/8")
- (4) 6-pt. or 12-pt. Metric (21mm, 22mm, 24mm, 27mm)
- (1) Ratchet
- (1) Extension (3")

### Wrenches (combination)

- (7) Standard (3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4")
- (7) Metric (10mm, 12mm, 13mm, 14mm, 15mm, 17mm, 19mm)

### Screwdrivers

### Pliers

### Additional Tools

- |                                 |                       |                      |
|---------------------------------|-----------------------|----------------------|
| (2) Slotted (1 small, 1 large)  | (1) Slip Joint Pliers | (1) Hammer           |
| (2) Phillips (1 small, 1 large) | (1) Diagonal Cutting  | (1) Locking Tool Box |

**Additional Information:** Principles of design and operation provide for an exact appreciation of the functions of automotive units. Coordinated laboratory work develops the ability to execute diagnostic tests and complete the repairs that are indicated. The curriculum prepares students for employment as technicians, factory representatives, or teachers with a specialization in hybrid and electric vehicle service.

**Career Opportunities:** Diagnostic technician, factory representative, factory technician, self-employment, automotive technician at dealerships, independent garages, automotive specialty shops, and parts-related businesses.

*John A. Logan College reserves the right to modify this curriculum guide as needed. Please verify with your academic advisor the accuracy and time lines of this document.*



John A. Logan College

# Master Certificate in Automotive Services Technology

Career Curriculum 00AST0052

Minimum Hours: 50

Major Code: 1.2 470604

Effective Date: Fall 2022

## FIRST YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
AST	100	Automotive Orientation and Safety	2	_____
AST	101	Automotive Maintenance & Light Repair	3	_____
AST	183	Brakes Steering and Suspension I	3	_____
AST	180	Electrical I	3	_____
ORI	100	College 101	<u>1</u>	_____
			12	

## FIRST YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
AST	170	Engine Repair	3	_____
AST	171	Engine Performance I	3	_____
AST	190	Electrical II	3	_____
AST	191	Automotive Service Lab I	<u>4</u>	_____
			13	

## SECOND YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
AST	261	Engine Performance II	3	_____
AST	282	Automotive HAVC	3	_____
AST	283	Brakes, Steering and Suspension II	3	_____
AST	291	Automotive Service Lab II	<u>4</u>	_____
			13	

## SECOND YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
AST	201	Hybrid/EV History and Safety	2	_____
AST	202	Hybrid/EV Diagnostic and Service	3	_____
AST	290	Drivetrain Basics	3	_____
AST	292	Automotive Service Lab III	<u>4</u>	_____
			12	

## NOTES AND INFORMATION

The minimum general education component for the Associate in Applied Science degree requires satisfactory completion of at least 15 semester credits of coursework distributed over the disciplines of Communications, Mathematics, Arts and Humanities, Physical and Life Sciences, and Social and Behavioral Sciences. The curriculum guide for each Associate in Applied Science degree program will spell out the course requirements or options available for satisfying the general education component. With appropriate justification and in consultation with your academic advisor, a request to substitute a course for one recommended in this guide may be granted with the appropriate approvals from the Department Chair, Dean for Instruction and Vice-President for Instruction. However, no substitutions are allowed in Groups I-III (General Education Component; GECC) of the curriculum guide (see the Associate in Applied Science general degree requirements worksheet in the John A. Logan College Catalog).

Students planning to transfer and pursue a baccalaureate degree should, when given a choice, enroll in the general education course that is IAI GECC approved and articulated with participating Illinois institutions.

All students registered for Automotive Services Technology classes will be required to furnish a basic tool set. The set includes the following:

### Drive Sockets (1/4" sq.)

- (10) 6-pt Standard (5/32" through 1/2")
- (10) 6-pt. Metric (4, 5, 5.5, 6 through 12 mm)
- (1) Quick Release Ratchet
- (1) Extension

### Drive Sockets (3/8" sq.)

- (9) 6-pt. or 12-pt. Standard (3/8" through 7/8")
- (10) 6-pt. or 12-pt. Metric (10mm through 19mm)
- (1) Ratchet
- (1) Extension (3")
- (1) Extension (6")

### Drive Sockets (1/2" sq.)

- (4) 6-pt. or 12-pt. Standard (15/16", 1", 1 1/16", 1 1/8")
- (4) 6-pt. or 12-pt. Metric (21mm, 22mm, 24mm, 27mm)
- (1) Ratchet
- (1) Extension (3")

### Wrenches (combination)

- (7) Standard (3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4")
- (7) Metric (10mm, 12mm, 13mm, 14mm, 15mm, 17mm, 19mm)

### Screwdrivers

- (2) Slotted (1 small, 1 large)
- (2) Phillips (1 small, 1 large)

### Pliers

- (1) Slip Joint Pliers
- (1) Diagonal Cutting

### Additional Tools

- (1) Hammer
- (1) Locking Tool Box

**Additional Information:** Principles of design and operation provide for an exact appreciation of the functions of automotive units. Coordinated laboratory work develops the ability to execute diagnostic tests and complete the repairs that are indicated. The curriculum prepares students for employment as line mechanics, diagnostic technicians, and industrial maintenance personnel, as well as shop managers, company technicians, factory representatives, or teachers.

**Career Opportunities:** Line mechanic, diagnostic technician, factory representative, factory technician, self-employment, automotive technician at dealerships, independent garages, automotive specialty shops, and parts-related businesses.

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John A. Logan College

# Certificate in Accounting

Career Curriculum 00ACC0063  
Minimum Hours: 31  
Major Code: 1.2 520301  
Effective Date: Fall 2019

## FIRST YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
ORI	100	College 101	1	_____
ACC	200	Financial Accounting I	3	_____
MAT	113	Introduction to Contemporary Mathematics OR	<u>3</u>	_____
		MAT 108 College Algebra OR	7	_____
		BUS 111 Business Mathematics		

## NOTES AND INFORMATION

<u>Fall Only Courses:</u>		<u>Spring Only Courses:</u>
ACC	218	ACC 105
		ACC 225
		CIS 220

**Additional Information:** This program, composed largely of accounting courses, is designed for the student who desires to gain and/or increase skills in the area of accounting. Successful completion of the program will lead to the awarding of a certificate of achievement.

**Career Opportunities:** Accounting Clerk, Bookkeeping Clerk, Payroll Clerk.

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## FIRST YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
ACC	105	Payroll Accounting	3	_____
ACC	201	Financial Accounting II	<u>3</u>	_____
			6	_____

## SECOND YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
ACC	202	Managerial Accounting	3	_____
ACC	218	Tax Accounting	3	_____
CIS	104	Spreadsheet Design	3	_____
COM	115	Speech OR	<u>3</u>	_____
		COM 116 Interpersonal Communication	12	_____

## SECOND YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
ACC	225	Integrated Accounting on Computers	3	_____
CIS	220	Advanced Spreadsheet Design	<u>3</u>	_____
			6	_____



John A. Logan College

# Certificate Toward a Degree in ASL/Deaf Studies

Career Curriculum IPP0192  
Minimum Hours: 34  
Major Code: 1.2 161603  
Effective Date: Fall 2020

## FIRST YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
ORI	100	College 101	1	_____
IPP	111	Non-Verbal Language	3	_____
ASL	141	American Sign Language (ASL I) <sup>1, 2</sup>	4	_____
			8	

## FIRST YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
ASL	142	American Sign Language (ASL II) <sup>1, 2</sup>	4	_____
IPP	144	ASL Classifiers	3	_____
IPP	151	Deaf Studies/Culture	3	_____
			10	

## SECOND YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
ASL	143	American Sign Language (ASL III) <sup>1</sup>	5	_____
IPP	211	ASL Linguistics I	3	_____
			8	

## SECOND YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
IPP	212	ASL Linguistics II	3	_____
ASL	244	ASL IV–Survey of ASL Literature <sup>1</sup>	5	_____
			8	

## NOTES AND INFORMATION

<sup>1</sup> A grade of "C" or higher is required in:

- ASL 141 American Sign Language (ASL I)
- ASL 142 American Sign Language (ASL II)
- ASL 143 American Sign Language (ASL III)
- ASL 244 ASL IV–Survey of ASL Literature

<sup>2</sup> Competency in American Sign Language communication ("C" or better in ASL 141 and 142) must be achieved before starting second year of classes.

**Additional Information:** This certificate program is designed to train individuals to become competent using American Sign Language with the deaf and hard-of-hearing population. The program introduces students to the history, characteristics, and needs of the hard of hearing along with American Sign Language.

**Career Opportunities:** Graduates of this program would work in the public school system, kindergarten through twelfth grade, as teachers' assistants. Graduates of this program would also be able to tutor deaf and hard of hearing children and provide other support services for deaf and hard of hearing children, work as job coaches for deaf and hard of hearing adults, in rehabilitation facilities with deaf and hard of hearing persons, and in any situation where skill in American Sign Language is required. This program would also assist interpreters to improve their general interpreting skills by providing additional language training.

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# Certificate in Auto Collision Technology Structural Damage Repair

Career Curriculum AUT0014  
Minimum Hours: 49  
Major Code: 1.2 470603  
Effective Date: Fall 2021

## FALL SEMESTER

Dept.	No.		Hrs.	Grade
ORI	100	College 101	1	_____
ACT	190	Auto Body Repair I	2	_____
ACT	191	Metal Finishing and Painting	2	_____
ACT	196	Auto Body Lab	5	_____
ACT	294	Plastics and Adhesives	2	_____
WEL	122	GMAW (MIG) Plate Welding	3	_____
			15	

## SPRING SEMESTER

Dept.	No.		Hrs.	Grade
ACT	192	Frame and Body Alignment	2	_____
ACT	193	Advanced Auto Body Repair	1	_____
ACT	194	Body Shop Management	1	_____
ACT	197	Auto Body Repair and Paint Lab II	5	_____
ACT	273	Chassis Electrical	3	_____
ACT	291	Mechanical Systems for Collision Technology	2 14	_____

## SUMMER SEMESTER

Dept.	No.		Hrs.	Grade
ACT	293	Structural Damage Repair	1	_____
ACT	296	Structural Damage Repair Lab	4 5	_____

## FALL SEMESTER

Dept.	No.		Hrs.	Grade
AST	173	Braking Systems	4	_____
AST	280	Air Conditioning	4	_____
AST	281	Suspension and Steering	4	_____
COM	115	Speech	3 15	_____

## OPTIONAL

Dept.	No.		Hrs.	Grade
INT	101	Internship <sup>1</sup>	1-3	_____

## NOTES AND INFORMATION

The Auto Collision Technology Certificate Program (AUT 0014) is the parent program to:

- Paint & Metal Technician Certificate Program (AUT 0115)

<sup>1</sup> Although this class is recommended, it is not required for graduation from this program and therefore is ineligible for Title IV financial aid funding.

This is a Gainful Employment Certificate Program of 16 credit hours or more that prepares the student for gainful employment in a recognized occupation. For detailed information regarding program length, cost, average loan debt and completion details, select the following link to the Gainful Employment Worksheet for this program. [Gainful Employment Worksheet–Auto Collision Technology Certificate Program \(AUT0014\)](http://www.jalc.edu/gainful_employment/auto_collision_technology/Gedt.html). You can also access this information by typing the following URL into your browser's address bar: [http://www.jalc.edu/gainful\\_employment/auto\\_collision\\_technology/Gedt.html](http://www.jalc.edu/gainful_employment/auto_collision_technology/Gedt.html)

**Career Opportunities:** Service Writer, Body Shop Estimator, Insurance Estimator, Auto Body Painter, Body Shop Manager, Collision Technician, Painter's Helper, Detailer, Body Shop Receptionist, Entry-Level Auto Body Metal Fabricator, Auto Body Shop Owner

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# Certificate in Automotive Services Technology

Career Curriculum 00AST0052  
Minimum Hours: 49  
Major Code: 1.2 470604  
Effective Date: Fall 2019

## FIRST SEMESTER – FALL

Dept. No.	Hrs.	Grade
<b>First Half</b>		
ORI 100 College 101	1	_____
AST 172 Introduction to Automotive Services	2	_____
AST 173 Braking Systems	4	_____
<b>Second Half</b>		
AST 170 Engine Repair	4	_____
AST 180A Basic Electrical Systems	2	_____
	13	

## SECOND SEMESTER – SPRING

Dept. No.	Hrs.	Grade
<b>First Half</b>		
AST 171A Ignition Systems	4	_____
AST 180B Starting and Charging Systems	2	_____
<b>Second Half</b>		
AST 171B Fuel and Exhaust Systems	4	_____
AST 180C Electrical Accessories	2	_____
	12	

## THIRD SEMESTER - FALL

Dept. No.	Hrs.	Grade
<b>First Half</b>		
AST 200 Alternative Fuels	2	_____
AST 280 Air Conditioning	4	_____
<b>Second Half</b>		
AST 273 Automotive Computer Electronics	2	_____
AST 281 Suspension and Steering	4	_____
	12	

## FOURTH SEMESTER – SPRING

Dept. No.	Hrs.	Grade
<b>First Half</b>		
AST 270 Manual Drive Trains and Axles	4	_____
AST 276 Emission Control Systems	2	_____
<b>Second Half</b>		
AST 271 Automatic Transmissions/Transaxles	4	_____
AST 279 ASE Testing	2	_____
	12	

## OPTIONAL

Dept. No.	Hrs.	Grade
INT 101 Internship <sup>1</sup>	1-3	

## NOTES AND INFORMATION

<sup>1</sup> Although this class is recommended, it is not required for graduation from this program and therefore is ineligible for Title IV financial aid funding.

All students registered for Automotive Services Technology classes will be required to furnish a basic tool set. The set includes the following:

### Drive Sockets (1/4" sq.)

- (10) 6-pt Standard (5/32" through 1/2")
- (10) 6-pt. Metric (4, 5, 5.5, 6 through 12 mm)
- (1) Quick Release Ratchet
- (1) Extension

### Drive Sockets (3/8" sq.)

- (9) 6-pt. or 12-pt. Standard (3/8" through 7/8")
- (10) 6-pt. or 12-pt. Metric (10mm through 19mm)
- (1) Ratchet
- (1) Extension (3"), (1) Extension (6")

### Drive Sockets (1/2" sq.)

- (4) 6-pt. or 12-pt. Standard (15/16", 1", 1 1/16", 1 1/8")
- (4) 6-pt. or 12-pt. Metric (21mm, 22mm, 24mm, 27mm)
- (1) Ratchet
- (1) Extension (3")

### Wrenches (combination)

- (7) Standard (3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4")
- (7) Metric (10mm, 12mm, 13mm, 14mm, 15mm, 17mm, 19mm)

### Screwdrivers

- (2) Slotted (1 small, 1 large)
- (2) Phillips (1 small, 1 large)

### Pliers

- (1) Slip Joint Pliers
- (1) Diagonal Cutting

### Additional Tools

- (1) Hammer
- (1) Locking Tool Box

**Additional Information:** Principles of design and operation provide for an exact appreciation of the functions of automotive units. Coordinated laboratory work develops the ability to execute diagnostic tests and complete the repairs that are indicated. The curriculum prepares students for employment as line mechanics, diagnostic technicians, and industrial maintenance personnel, as well as shop managers, company technicians, factory representatives, or teachers.

**Career Opportunities:** Line mechanic, diagnostic technician, factory representative, factory technician, self-employment, automotive technician at dealerships, independent garages, automotive specialty shops, and parts-related businesses.

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John A. Logan College

# Certificate in Biomedical Electronics Technician

Career Curriculum00ELT3024  
Minimum Hours: 32  
Major Code: 1.2 150401  
Effective Date: Fall 2020

## FALL SEMESTER

Dept.	No.		Hrs.	Grade
ORI	100	College 101	1	_____
ELT	102	Basic Electricity and Wiring	4	_____
ELT	111	Digital Electronics I	3	_____
ELT	215	IOT and Embedded Systems	3	_____
ELT	250	Biomedical Instrumentation II	3	_____
MAT	113	Intro to Contemporary Math or MAT 112		
		Intro to Contemporary Math with Integrated Review	<u>3</u>	_____
			17	

## NOTES AND INFORMATION

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## SPRING SEMESTER

Dept.	No.		Hrs.	Grade
ELT	112	Digital Electronics II	3	_____
ELT	170	Biomedical instrumentation I	3	_____
ELT	218	Introduction to Network Tech.	3	_____
ELT	280	Biomedical Instrumentation III	3	_____
HIT	217	Medical Terminology I	<u>3</u>	_____
			15	





# Certificate in Business Management

Career Curriculum BUS2007  
Minimum Hours: 39  
Major Code: 1.2 520201  
Effective Date: Fall 2019

## FIRST YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
ORI	100	College 101	1	_____
BUS	110	Introduction to Business	3	_____
BUS	235	Business Communication	3	_____
BUS	255	Customer Service	3	_____
ECO	201	Introduction to Macroeconomics OR ECO 202 Introduction to Microeconomics	<u>3</u> 13	_____

## NOTES AND INFORMATION

Fall Only Courses:		Spring Only Courses:	
BUS	255	IDM	120
MKT	113	MGT	112
MKT	130	MGT	228

The Business Management Certificate Program (BUS 2007) is an ICCB approved extension of the Business Management AAS Degree (BUS 2006).

## FIRST YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
BUS	222	Legal/Social Environment of Business	3	_____
CIS	207	Computer Applications for Business	3	_____
IDM	120	Safety and Environmental Management	2	_____
MGT	112	Principles of Management	3	_____
MGT	228	Small Business Management	<u>3</u> 14	_____

**Career Opportunities:** entry-level management positions in retail management, sales management, office management, and restaurant management; possible career opportunities within local, state, and federal government agency facilities.

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## SECOND YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
ACC	100	Business Accounting	3	_____
MAT	113	Introduction to Contemporary Mathematics OR BUS 111 Business Mathematics	3	_____
MKT	113	Principles of Marketing I	3	_____
MKT	130	Sales I	<u>3</u> 12	_____



John A. Logan College

# Certificate in CNC Machinist

Career Curriculum MAC2014  
Minimum Hours: 32  
Major Code: 1.2 480510  
Effective Date: Fall 2021

## FIRST YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
ORI	100	College 101	1	_____
ELT	102	Basic Electricity and Wiring	4	_____
IDM	210	Hydraulics and Pneumatics	3	_____
IND	201	Metallurgy	2	_____
MAC	200	Machine Tool Laboratory	4	_____
MFT	103	Industrial Robots and PLCs	3	_____
			17	

## FIRST YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
IDM	120	Safety and Environmental Management	2	_____
MAC	154	Introduction to CNC	2	_____
MAC	159	CAM Operations	2	_____
MAC	180	Blueprint Reading	3	_____
MFT	201	PLC Manufacturing Systems	3	_____
WEL	124	GTAW (TIG) Welding I	3	_____
			15	

## NOTES AND INFORMATION

This is a Gainful Employment Certificate Program of 16 credit hours or more that prepares the student for gainful employment in a recognized occupation. For detailed information regarding program length, cost, average loan debt and completion details, select the following link to the Gainful Employment Worksheet for this program. [Gainful Employment Worksheet–CNC Machinist Certificate Program \(MAC 2014\)](#).

You can also access this information by typing the following URL into your browser's address bar:  
[http://www.jalc.edu/gainful\\_employment/cnc\\_machinist/Gedt.html](http://www.jalc.edu/gainful_employment/cnc_machinist/Gedt.html)

All students registered for this program will be required to furnish a basic tool set. The set includes the following:

- Combination square (recommend: Starrett, Mitutoyo or Fowler)
- Micrometer set 1" & 2" (recommend: Starrett, Mitutoyo or Fowler) *optional*
- 6" dial calipers (recommend: Starrett, Mitutoyo or Fowler)
- Carbide tipped scribe
- Steel toed work boots/shoes
- Safety glasses with side shields
- 6" flexible rule
- Shop apron
- Ball end Allen wrench set (standard and metric)
- Red lead pencil, grease pencil, and fine tip Sharpie
- Tool box
- 25' tape measure
- Blue jeans (100% cotton)
- Long sleeve shirt (100% cotton)
- Leather welding gloves
- Channel lock pliers
- Composition notebook (qty 2)
- 3 ring binder with 1 package of tab dividers
- Scientific calculator (TI30XA or equivalent) *no programmable calculators*
- Digital multi-meter (DMM) must measure volts, ohms, and milli-amps
- Replacement fuses for meter
- 15 amp fuses (qty 4)
- Needle nose pliers
- Lineman's pliers
- Cable stripper
- #2 Phillips screwdriver
- ¼" standard screwdriver

*Note:* Cost varies from different suppliers.

**Career Opportunities:** Beginning salaries are comparable to other technical careers with many positions offering an opportunity for quick advancement. These positions can be found in our region and throughout the nation from manufacturing companies, industrial companies, government agencies, and the mining industry.

Upon completion of the CNC Machine Certificate program, a student may find employment as a machine tool operator/programmer, CNC machinist, lathe operator, mill operator, or a general machinist. This program provides the student with an opportunity to start as a higher level in the work force with quick advancement within a company possible.

A job placement service is provided for all John A. Logan College graduates in an effort to assist students in finding gainful employment. Each year new graduates prepare or update resumes and submit them to the college Placement Office for review by potential employers.

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John A. Logan College

# Certificate in Computer Information Systems

Career Curriculum CIS0401  
Minimum Hours: 34  
Major Code: 1.2 110401  
Effective Date: Fall 2021

## FALL SEMESTER

Dept.	No.		Hrs.	Grade
ORI	100	College 101	1	_____
CIS	200	Network Essentials	3	_____
CIS	206	Managing Network Environment I	3	_____
CIS	207	Computer Application in Business	3	_____
ENG	101	English Composition I <sup>1</sup> OR ENG 113 Professional Technical Writing <sup>1</sup>	3	_____
MAT	120	Elementary Statistics or MAT 119 Elementary Statistics with Integrated Review OR BUS 111 Business Mathematics	3 16	_____

## NOTES AND INFORMATION

<sup>1</sup> Requires a grade of "C" or higher.

The Computer Information Systems Certificate Program (CIS 0401) is an ICCB approved extension of the Computer Information Systems AAS Degree (CIS 0400).

This is a Gainful Employment Certificate Program of 16 credit hours or more that prepares the student for gainful employment in a recognized occupation. For detailed information regarding program length, cost, average loan debt and completion details, select the following link to the Gainful Employment Worksheet for this program.

[https://www.jalc.edu/files/uploads/global/consumer\\_information/pdfs/gainful\\_employment/computer\\_information\\_systems.pdf](https://www.jalc.edu/files/uploads/global/consumer_information/pdfs/gainful_employment/computer_information_systems.pdf). You can also access this information by typing the following URL into your browser's address bar: [http://www.jalc.edu/gainful\\_employment/computer\\_information\\_systems/Gedt.html](http://www.jalc.edu/gainful_employment/computer_information_systems/Gedt.html)

## SPRING SEMESTER

Dept.	No.		Hrs.	Grade
ACC	100	Business Accounting OR ACC 200 Financial Accounting I	3	_____
CIS	104	Spreadsheet Design		_____
CIS	120	Database Management	3	_____
CIS	208	Security Awareness	3	_____
CIS	209	Introduction to Cybercrimes	3	_____
CIS	230	Operating Systems	3	_____
			18	

**Additional Information:** Students who successfully complete this program will have the minimum skills necessary to maintain an existing small business automated system. They will be able to perform the duties necessary to enter, store, retrieve, transfer, update, and maintain data files. They will possess the required technical knowledge to ensure the proper care of equipment and software. Students who complete this one-year program will receive a Certificate of Achievement.

**Career Opportunities:** Upon successful completion of this program, students will have the minimum skills necessary to maintain an existing small business information system; perform the duties necessary to enter, store, retrieve, transfer, update, and maintain computerized information; and possess the required technical knowledge to ensure the proper care of equipment and software.

*John A. Logan College reserves the right to modify this curriculum guide as needed. Please verify with your academic advisor the accuracy and time lines of this document.*



# Certificate in Cosmetology

Career Curriculum 00C0S0056  
Minimum Hours: 39  
Major Code: 1.2 120401  
Effective Date: Summer  
2022

## FALL SEMESTER

Dept. No.		Hrs.	Grade
ORI 100	College 101	1	_____
COS 101	Cosmetology Theory I	6	_____
COS 111	Cosmetology Laboratory I	<u>11</u>	_____
		18	

## NOTES AND INFORMATION

\* COS 260 Cosmetology Review is an optional refresher course to meet IDFPD licensure requirements.

The Cosmetology Certificate (00C0S0056) is the parent program to:

- Cosmetology Teacher Program Certificate (00C0S0057)

## SPRING SEMESTER

Dept. No.		Hrs.	Grade
COS 102	Cosmetology Theory II	5	_____
COS 112	Cosmetology Lab	<u>11</u>	_____
		16	

This is a Gainful Employment Certificate Program of 16 credit hours or more that prepares the student for gainful employment in a recognized occupation. For detailed information regarding program length, cost, average loan debt and completion details, select the following link to the Gainful Employment Worksheet for this program. [Gainful Employment Worksheet—Cosmetology Certificate Program \(00C0S0056\)](#).

You can also access this information by typing the following URL into your browser's address bar:

[http://www.jalc.edu/gainful\\_employment/cosmetology/Gedt.html](http://www.jalc.edu/gainful_employment/cosmetology/Gedt.html)

## SUMMER SEMESTER

Dept. No.		Hrs.	Grade
COS 113	Cosmetology Lab III (Summer only)	3	_____
COS 114	Cosmetology Internship Program (Summer only)	<u>2</u>	_____
		5	

**Additional Information:** The Cosmetology Program is designed to give students thorough training in the arts, skills, and applied sciences that deal with adornment through care and treatment of the hair, nails, and skin.

The Cosmetology Licensure Certificate Program meets the standards of the Department of Financial and Professional Regulation-Division of Professional Regulations, State of Illinois, in total hours, teaching staff, equipment, facilities, library, and course content.

Graduates are prepared for licensure by the Department of Financial and Professional Regulation-Division of Professional Regulations, State of Illinois, upon passing the Illinois Cosmetology examination. This qualifies the graduate for employment.

**Career Opportunities:** Cosmetologist, salon owner, salon manager, manicurist/pedicurist/nail technician, hairstylist/hair dresser, sales representative.

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John A. Logan College

# Certificate Toward a Degree in Dental Assisting\*

Career Curriculum DNA0039  
Minimum Hours: 40  
Major Code: 1.2 510601  
Effective Date: Fall 2019

## FALL SEMESTER

Dept.	No.		Hrs.	Grade
ORI	100	College 101	1	_____
DNA	100	Oral & Dental Anatomy	2	_____
DNA	102	Dental Assisting Procedures I	4	_____
DNA	104	Dental Radiography I	3	_____
DNA	107	Dental Materials	3	_____
DNA	108	Head and Neck Anatomy	2	_____
DNA	110	Infection Control	1	_____
DNA	113	Oral Embryology and Histology	2	_____
			18	

## SPRING SEMESTER

Dept.	No.		Hrs.	Grade
DNA	101	Dental Emergencies and Pathology	2	_____
DNA	103	Dental Assisting Procedures II	2	_____
DNA	105	Dental Radiography II	2	_____
DNA	106	Preventive Dental Health Education	3	_____
DNA	109	Dental Office Procedures	2	_____
DNA	112	Dental Assisting Externship	5	_____
			16	

## SUMMER SEMESTER

Dept.	No.		Hrs.	Grade
PSY	132	General Psychology <sup>1</sup>	3	_____
COM	115	Speech <sup>2</sup> OR	3	_____
		COM 116 Interpersonal Communication	6	_____

## NOTES AND INFORMATION

\* Students must maintain a grade of "C" or higher in **all** courses.

<sup>1</sup> All required general education classes must be completed with a grade of "C" or higher.

<sup>2</sup> Transfer Information: Students planning to transfer to Lewis & Clark Community College's Dental Hygiene Program should take SPE 115.

**Lewis & Clark Community College and Parkland Colleges will accept and articulate John A. Logan College's Dental Assisting courses when students enter their Dental Hygiene program. The student should contact these institutions directly to initiate the process upon application.**

### Additional Information:

The Dental Assisting Program prepares students to become highly competent individuals possessing the skills and knowledge necessary for performing the many tasks required to provide quality dental care. As a member of the dental health team, the dental assistant is responsible for providing such services as assisting the dentist with operative and surgical procedures, manipulating of dental materials, taking radiographs, providing oral health instructions, and performing office management skills. Classroom theory, laboratory practice, and clinical training on campus and in the dental office are included in this certificate program.

Graduates will be eligible to sit for the Dental Assisting National Board Exam, and successful candidates may use the title "Certified Dental Assistant (CDA)." Certification is highly recommended and mandatory in some states. This certificate program is accredited by the Commission on Dental Accreditation of the American Dental Association, a specialized accrediting body recognized by the Council on Post-Secondary Accreditation and by the United States Department of Education. The Southern Illinois Dental Society endorses the John A. Logan College Dental Assisting Program.

Entrance exams will be given with the ranking of raw scores and weighting of the two general education classes (SPE 115 or SPE 116 and PSY 132). Selection will be completed in late April.

**Career Opportunities:** To obtain employment in a private dental office or state facility. Duties include working directly with dentist, laboratory duties and office experiences. Dental assistants must be reliable, work well with others and have good manual dexterity. This occupation is projected to grow in the next few years.

### The Dental Assisting Program is accredited by: Commission on Dental Accreditation (CODA)

211 East Chicago Avenue  
Chicago, IL 60611

**Career Opportunities:** Practice in a private dental office, cleaning teeth, exposing x-rays, providing dental care instructions, and maintaining patient records.

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John A. Logan College

# Certificate Toward a Degree in Early Childhood Education Family Childcare

Career Curriculum ECE0006  
Minimum Hours: 30  
Major Code: 1.2 190709  
Effective Date: Fall 2020

## FIRST YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
ORI	100	College 101	1	_____
ALH	101	Cardiopulmonary Resuscitation	1	_____
ECE	151	Health, Safety, and Nutrition	3	_____
ECE	160	Child, Growth, and Development	3	_____
ECE	260	Child, Family, and Community Relations	3	_____
ENG	101	English Composition I	3	_____
PSY	132	General Psychology	3	_____
			17	

## NOTES AND INFORMATION

The Family Child Care certificate program (ECE 0006) is an ICCB approved extension of the Early Childhood Education A.A.S. degree program (ECE 0005). Students completing this certificate will also earn the Illinois Gateways to Opportunity, Family Child Care Credential.

\*Gateways Level 3 credential requires the minimum of 20 hours of practicum experience: 10 hours of supervised work experience in early childhood classroom and 10 hours of supervised experience in a licensed family child care home is required, totaling 20 hours of practicum experience.

\*\*400 hours of documented work experience in a child care center and 600 hours of documented work experience in a licensed family child care home will satisfy the practicum requirement.

## FIRST YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
ECE	171	Family Child Care Practicum*	1	_____
ECE	220	Infant Toddler Curriculum OR ECE 265 Early Childhood Curriculum	3	_____
ECE	240	Observation and Assessment	3	_____
ECE	266	Preschool Administration	3	_____
MAT	108	College Algebra OR MAT 120 Elementary Statistics OR BUS 111 Business Mathematics	3-4 13-14	_____

This is a Gainful Employment Certificate Program of 16 credit hours or more that prepares the student for gainful employment in a recognized occupation. For detailed information regarding program length, cost, average loan debt and completion details, select the following link to the Gainful Employment Worksheet for this program.

[https://www.jalc.edu/files/uploads/global/consumer\\_information/pdfs/gainful\\_employment/family\\_child\\_care.pdf](https://www.jalc.edu/files/uploads/global/consumer_information/pdfs/gainful_employment/family_child_care.pdf) You can also access this information by typing the following URL into your browser's address bar:  
[http://www.jalc.edu/gainful\\_employment/family\\_child\\_care/Gedt.html](http://www.jalc.edu/gainful_employment/family_child_care/Gedt.html)

**Additional Information:** Currently the Department of Children and Family Services (DCFS) requires licensed "Group Day Care Home" providers to complete 30 hours of college credit. This allows the Group Day Care Home to care for up to 16 children with the support of a full-time and part-time assistant. This DCFS educational requirement does not apply to a licensed "Day Care Home" provider serving 8 children alone or serving 12 children with the support of an assistant. In order to meet high-quality program standards, all child care providers seeking accreditation and higher child care reimbursement rates will benefit from additional educational requirements.

**Career Opportunities:** The Family Child Care Certificate program prepares individuals to provide professional, high-quality care and early education to children in a **home setting**. **Please note:** The completion of 60 college credit hours or an associate degree is required for teachers in child care centers and assistant teachers in public schools.

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**FIRST YEAR – FALL SEMESTER**

Dept. No.		Hrs.	Gr.
ECE 151	Health, Safety, and Nutrition	3	___
ECE 160	Child, Growth, and Development	3	___
ECE 161	Early Childhood Practicum	1	___
ECE 272	Language & Literacy Development	<u>3</u>	___
		10	

**FIRST YEAR – SPRING SEMESTER**

Dept. No.		Hrs.	Gr.
ECE 120	Guiding Play and Learning	3	___
ECE 265	Early Childhood Curriculum	<u>3</u>	___
		6	

**Fall Only Class      Spring Only Classes**

ECE 151	ECE 120
ECE 272	ECE 265

The Early Childhood Education certificate program is an ICCB approved extension of the Early Childhood Education A.A.S. degree program (ECE 0005).

Students who complete this certificate program meet the requirements for the **Gateways Level 2 ECE Credential**. All coursework in this certificate program work toward the ECE Associate in Applied Science Degree.

This is a Gainful Employment Certificate Program of 16 credit hours or more that prepares the student for gainful employment in a recognized occupation. For detailed information regarding program length, cost, average loan debt and completion details, select the following link to the Gainful Employment Worksheet for this program.

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**Career Opportunities:** Individuals completing this certificate are better qualified to work as assistant teachers in child care centers. These individuals are also better qualified to provide quality child care in their homes.

**Effective Date: Fall 2021**





**FIRST YEAR – FALL SEMESTER**

Dept. No.		Hrs.	Gr.
ECE 151	Health, Safety, and Nutrition	3	___
ECE 160	Child, Growth, and Development	3	___
ECE 161	Early Childhood Practicum	1	___
ECE 260	Child, Family & Community	3	___
ECE 272	Language & Literacy Development	<u>3</u>	___
		13	

**FIRST YEAR – SPRING SEMESTER**

Dept. No.		Hrs.	Gr.
ECE 120	Guiding Play and Learning	3	___
ECE 265	Early Childhood Curriculum	3	___
ENG 101	English Composition	3	___
PSY 132	General Psychology	3	___
MAT 108	College Algebra or MAT 120	<u>3</u>	___
	Elementary Statistics or BUS 111	15	
	Business Math		

<u>Fall Only Class</u>	<u>Spring Only Classes</u>
ECE 151	ECE 120
ECE 260	ECE 265
ECE 272	

The Early Childhood Education certificate program is an ICCB approved extension of the Early Childhood Education A.A.S. degree program (ECE 0005).

Students who complete this certificate program meet the requirements for the **Gateways Level 3 ECE Credential**. All coursework in this certificate program work toward the ECE Associate in Applied Science Degree.

This is a Gainful Employment Certificate Program of 16 credit hours or more that prepares the student for gainful employment in a recognized occupation. For detailed information regarding program length, cost, average loan debt and completion details, select the following link to the Gainful Employment Worksheet for this program.

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**Career Opportunities:** Individuals completing this certificate are better qualified to work as assistant teachers in child care centers. These individuals are also better qualified to provide quality child care in their homes.

**Effective Date: Fall 2021**



John A. Logan College

# Certificate Toward a Degree in Electronics Technician

Career Curriculum00ELT3014

Minimum Hours:26

Major Code: 1.2 470101

Effective Date: Spring 2022

## FIRST YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
ELT	102	Basic Electricity and Wiring	4	_____
ELT	111	Digital Electronics I <sup>1</sup>	3	_____
ENG	101	English Composition I <sup>1</sup> OR ENG 113 Professional Technical Writing	3	_____
MAT	113	OR MAT 112 Introduction to Contemporary Mathematics	3	_____
ORI	101	College 101	<u>1</u>	_____
			14	

## FIRST YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
ELT	150	Applied Solid State Electronics	3	_____
ELT	112	Digital Electronics II	3	_____
ELT	200	Introduction to Microprocessors	3	_____
PHY	121	Technical Physics	<u>3</u>	_____
			12	

## NOTES AND INFORMATION

### Fall Only Courses:

ELT 102

ELT 111

### Spring Only Courses:

ELT 150 ELT 200

ELT 112

<sup>1</sup> Requires a grade of "C" or higher.

**Career Opportunities:** Entry-level Technician, Sales Associate, Quality Control Technician, Customer Services Technician/Representative, Electronics Repair Associate/Technician

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The Electronics Technician Certificate Program (ELT3014) is an ICCB approved extension of the Electronics Technology Associate in Applied Science Degree (ELT3010)



John A. Logan College

# Certificate Toward a Degree in Emergency Medical Services

Career Curriculum EMS 0102  
Minimum Hours: 49  
Major Code: 1.2 510904  
Effective Date: Fall 2020

## FIRST YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
ORI	100	College 101	1	_____
EMS	250	Paramedic I	<u>12.0</u>	_____
			13.0	

## FIRST YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
EMS	251	Paramedic II	9.0	_____
EMS	251A	Paramedic II Clinical	<u>3.0</u>	_____
			12	

## FIRST YEAR – SUMMER SEMESTER

Dept.	No.		Hrs.	Grade
EMS	252	Paramedic III	9.0	_____
EMS	252A	Paramedic III Clinical	<u>3.0</u>	_____
			12	

## SECOND YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
EMS	253	Paramedic IV	9.0	_____
EMS	253A	Paramedic IV Clinical	<u>3.0</u>	_____
			12	

## NOTES AND INFORMATION

\* Students must complete EMT 111--Emergency Medical Technician I prior to entering the EMS program.  
Current Illinois EMT-Basic (EMT-B) or EMT-Intermediate (EMT-I) certification is required.

Graduates after January 1, 2013 will be eligible to sit for the Illinois Department of Public Health, EMT-Paramedic (EMT-P) licensing exam but ineligible to sit for the National Registry of Emergency Medical Technicians Exam (NREMT).

The Emergency Medical Services Certificate Program (EMS 0102) is an ICCB approved extension of the Emergency Medical Services AAS Degree (EMS 0101).

**Career Opportunities:** Graduates of the program will be eligible to sit for the Illinois Department of Public Health, EMT-Paramedic (EMT-P) licensing exam which is required for paramedic licensure in the state of Illinois. Licensed paramedics have employment opportunities in hospitals, ambulance services, fire departments, colleges and within various governmental programs.

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**Certificate**  
Toward a Degree in  
**Emergency Medical  
Technician**

Career Curriculum EMT2021  
Minimum Hours: 12  
Major Code: 1.2 510810  
Effective Date: Summer 2022

**FIRST YEAR – FALL SEMESTER**

<b>Dept.</b>	<b>No.</b>		<b>Hrs.</b>	<b>Grade</b>
EMT	111	Emergency Medical Technician	12	_____

**NOTES AND INFORMATION**

**Career Opportunities:** Emergency Medical Technician (EMT)

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John A. Logan College

# Certificate Toward a Degree in Graphic Design

Career Curriculum GRD0005  
Minimum Hours: 50  
Major Code: 1.2 500409  
Effective Date: Fall 2019

## FIRST YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
ART	101	Two Dimensional Design	3	_____
ART	180	Drawing I	3	_____
GRD	110	Graphics Design I	5	_____
ORI	100	College 101	<u>1</u>	_____
			12	

## NOTES AND INFORMATION

<sup>1</sup>Electives to choose from: ART 205, ART 256, ART 297, BUS 110, BUS 235, BUS 222, BUS 255, CIS 105, CIS 208

The Graphics Design Certificate Program (GRD 0005) is an ICCB approved extension of the Graphic Design Associate in Applied Science Degree (GRD 2004).

## FIRST YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
ART	290	Computer Art I	3	_____
GRD	120	Graphics Design II	5	_____
CIS	207	Computer Applications for Business	3	_____
MKT	224	Advertising	<u>3</u>	_____
			14	

**Career Opportunities:** Graphic designers work for print shops, magazine companies, newspaper companies, advertising agencies, television stations and other related industries. The needs for each company vary, but a graphic designer's responsibilities may include the creation of graphics, photography, animation, page setup, layout, logo design, and web page design.

The certificate program is geared toward students desiring a career in graphics design, updating their existing skills, or having an interest in artistic expression. This program is ideal for dislocated or incumbent workers who wish to concentrate their education toward graphics design related classes.

## SECOND YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
ART	220	History of Art I	3	_____
ART	296	Photography I	3	_____
INT	101	Internship	1	_____
GRD	210	Graphics Design III	<u>5</u>	_____
			12	

Beginning salaries are comparable to other technical careers with the possibility for advancement within a particular company. A job placement service is provided for all John A. Logan College graduates to help students find employment.

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## SECOND YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
ART	292	Computer Art II	3	_____
GRD	220	Animation	3	_____
GRD	230	Video Production	3	_____
		Elective <sup>1</sup>	<u>3</u>	_____
			12	



# Certificate

## Toward a Degree in

# Heating and Air Conditioning

Career Curriculum HAC0006  
 Minimum Hours: 47  
 Major Code: 1.2 470201  
 Effective Date: Fall 2021

### FIRST YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
ORI	100	College 101	1	_____
HAC	102	Residential Electrical Wiring	4	_____
HAC	121	Heating I	4	_____
MAT	113	Introduction to Contemporary Mathematics OR	3	_____
		MAT 100 Mathematics for Applied Technologies OR		
		MAT 120 Elementary Statistics		
WEL	120	Oxyful, Welding, Cutting and Brazing	<u>3</u>	_____
			15	

### NOTES AND INFORMATION

<sup>1</sup> Although this class is recommended, it is not required for graduation from this program and therefore is ineligible for Title IV financial aid funding.

This is a Gainful Employment Certificate Program of 16 credit hours or more that prepares the student for gainful employment in a recognized occupation. For detailed information regarding program length, cost, average loan debt and completion details, select the following link to the Gainful Employment Worksheet for this program. [Gainful Employment Worksheet–Heating and Air Conditioning Certificate Program \(HAC 0006\)](http://www.jalc.edu/gainful_employment/heating_and_air_conditioning/Gedc.html). You can also access this information by typing the following URL into your browser’s address bar: [http://www.jalc.edu/gainful\\_employment/heating\\_and\\_air\\_conditioning/Gedc.html](http://www.jalc.edu/gainful_employment/heating_and_air_conditioning/Gedc.html)

**Additional Information:** This program prepares students for careers in the heating and air conditioning industry. The curriculum provides theory as well as sufficient laboratory experience to prepare graduates for immediate employment. Students will be trained for competency in installing, operating, troubleshooting, and maintaining all types of environmental control equipment. The graduate will receive a Certificate of Achievement.

All students registered for heating and air conditioning classes will be required to furnish a basic tool set. The basic tool set will be necessary by the beginning of the fifth week of the semester. The set includes the following:

### FIRST YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
HAC	105	Basic Sheet Metal Layout	3	_____
HAC	107	Electrical Controls and Circuitry	3	_____
HAC	122	Heating II	4	_____
HAC	131	Refrigeration & Air Conditioning I	<u>4</u>	_____
			14	

#### Sockets

- 1/4" Socket Set

#### Nutdrivers

- Nutdriver ND5 1/4"
- Nutdriver ND7 5/16"

#### Screwdrivers

- Phillips Stubby Screwdriver
- #2 x 4" Phillips Screwdriver
- Flat Stubby Screwdriver
- 3/16" x 6" Slotted Screwdriver
- 5/16" x 6" Slotted Screwdriver

#### Pliers

- Sidecutters
- 7 1/2" Longnose Pliers
- Channel Locks

#### Wrenches

- 6" Adjustable Wrench
- 8" Adjustable Wrench
- 10" Adjustable Wrench
- 12" Adjustable Wrench
- Hex Wrench Set
- Service Valve Wrench
- Combination Wrench Set 1/4" to 3/4"

#### Additional Tools

- Wire Strippers
- Clamp-On Amp Meter
- Digital Multimeter (must read D.C. microamps-MA)
- Manifold Gauge Set
- Pocket Thermometer
- Inspection Mirror
- Sling Psychrometer
- Red and Green Tin Snips
- Tinnerns Hammer
- Dividers

*Note:* Cost varies from different suppliers. Tools may be purchased at Sears, Snap-On, True Value, etc.

**Career Opportunities:** Technicians, installers or maintenance personnel.  
 John A. Logan College reserves the right to modify this curriculum guide as needed. Please verify with your academic advisor the accuracy and time lines of this document.

### SECOND YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
CMG	107	Construction Document Interpretation	3	_____
HAC	106	Advanced Sheet Metal Layout	2	_____
HAC	132	Refrigeration & Air Conditioning II	4	_____
HAC	140	Weatherization	3	_____
HAC	222	Advanced Heating Systems	3	_____
HAC	240	Installation of HVAC Systems	<u>3</u>	_____
			18	

### SECOND YEAR – SPRING SEMESTER (OPTIONAL)

Dept.	No.		Hrs.	Grade
INT	101	Internship <sup>1</sup>	<u>1-3</u>	_____
		OR PSY 110 College Success and Career Planning <sup>1</sup>	1-3	







John A. Logan College

# Certificate Toward a Degree in Massage Therapy

Career Curriculum MAS2004  
Minimum Hours: 36.5  
Major Code: 1.2 513501  
Effective Date: Fall 2019

## FIRST YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
ORI	100	College 101	1	_____
BIO	105	Humans in Society <sup>1</sup>	4	_____
MAS	101	Introduction to Massage Therapy	3	_____
MAS	102	Massage Therapy I	5	_____
MAS	103	Body Anatomy for Massage Therapy	5	_____
			18	

## FIRST YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
MAS	104	Anatomy and Physiology for Massage	5	_____
MAS	105	Massage Therapy II	5	_____
MAS	106	Advanced Massage Therapy	3	_____
MAS	107	Massage Clinic	4	_____
			17	

## FIRST YEAR – SUMMER SEMESTER

Dept.	No.		Hrs.	Grade
MAS	108	Massage Therapy Clinic Practice	1.5	_____

## NOTES AND INFORMATION

<sup>1</sup> It is strongly recommended that students complete BIO 105 prior to MAS program. Prior credit will not be given if the earned grade is less than a "C."

Students must earn a grade of "C" or better in all MAS classes.

**Career Opportunities:** Graduates of the program are qualified to take the National Certification Examination for Therapeutic Massage and Bodywork, which is required for massage therapy licensure in the state of Illinois. Licensed massage therapists have employment opportunities in private practice, pain and rehabilitation clinics, health clubs, spas and salons, hotels, athletic events, and other locations.

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John A. Logan College

# Certificate Toward a Degree in Medical Assistant\*

Career Curriculum MDA2006  
Minimum Hours: 37  
Major Code: 1.2 510801  
Effective Date: Fall 2019

## FIRST YEAR – SUMMER SEMESTER

Dept.	No.		Hrs.	Grade
BUS	115	Keyboarding <sup>1</sup>	1	_____
NAD	101	Nursing Assistant Training <sup>2</sup>	7	_____
			8	

## FIRST YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
ORI	100	College 101	1	_____
BIO	105	Human Biology <sup>3</sup>	4	_____
HIT	217	Medical Terminology	3	_____
MDA	120	Introduction to Medical Assisting	3	_____
MDA	122	Medical Office Procedures	4	_____
MDA	126	Introduction to Electronic Health Records	2	_____
			17	

## FIRST YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
MDA	130	Pharmacology	3	_____
MDA	132	Medical Clinic Procedures	4	_____
MDA	133	Medical Office Laboratory Procedures	2	_____
MDA	134	Externship	3	_____
			12	

## NOTES AND INFORMATION

\* All MDA courses must be taken in the sequence stated in the curriculum. Students must maintain a "C" or higher in all courses in order to graduate from the program. Drug screening, immunizations and criminal background checks are required for externships.

<sup>1</sup> Proficiency exam is available for BUS 115 for students entering the program with a sound background in keyboarding. See your advisor or the chairperson of the Business Department for information.

<sup>2</sup> NAD 101 must be completed by the end of the first semester or prior to application into the Medical Assistant program. Registration with the Illinois Department of Health-Health Care Worker Registry is required for background check purposes only.

<sup>3</sup> BIO 205 & BIO 206 may be substituted for BIO 105.

**Career Opportunities:** This certificate program is a concentrated program of study in medical assisting designed to train individuals to become multi-skilled professionals in an ambulatory healthcare setting. Medical assistants are allied health professionals who function as a member of a health care delivery team and perform routine, yet essential, administrative and clinical procedures.

Graduates are eligible to sit for the following certification exams:

- National Center for Competency Testing (NCCT)

*John A. Logan College reserves the right to modify this curriculum guide as needed. Please verify with your academic advisor the accuracy and time lines of this document.*



# Certificate

## Toward a Degree in

# Nursing-Practical Nursing

## 5-Semester Part-Time

Career Curriculum 00LPN0061  
Minimum Hours: 36  
Major Code: 1.2 513901  
Effective Date: Summer 2021

### REQUIRED GENERAL EDUCATION COURSES

Dept.	No.		Hrs.	Grade
ALH	101	Cardiopulmonary Resuscitation <sup>1</sup>	1.0	_____
BIO	205	Human Anatomy and Physiology I <sup>2</sup>	4	_____
BIO	206	Human Anatomy and Physiology II	4	_____
COM	116	Interpersonal Communication	<u>3</u>	_____
			12	

### NOTES AND INFORMATION

\*Students must maintain a "C" or higher in all courses.  
Students will be **required** to complete ALH 101 the Fall semester. No student will be exempt from this requirement.

<sup>1</sup> Students must be certified in CPR annually before starting clinical rotation.

<sup>2</sup> BIO 205 Human Anatomy and Physiology I must be completed by the end of the first semester or prior to program admittance. No prior credit will be given if a grade lower than a "C" was earned. It is strongly recommended that students without a high school or college background in biology take BIO 100 or 101 or 105 prior to BIO 205.

### FIRST SEMESTER – SPRING

Dept.	No.		Hrs.	Grade
ORI	111	PN Orientation	.5	_____
PNE	101	Fundamentals of Nursing	3	_____
PNE	102	Nursing Procedures	2	_____
PNE	103	Clinical Nursing	1.5	_____
PNE	161	Pharmacology in Nursing I	<u>2</u>	_____
			9	

### Additional Information:

The applicant should contact the Assessment Office at the College and request an admissions packet to the Practical Nursing Program. The steps to be followed are specified in the packet.

The Practical Nursing Program is designed to provide an individual with the knowledge and skills to function as a safe and effective member of the health care team in the role of the practical nurse. Classroom theory, laboratory practice, and clinical experience are included in this three-semester certificate program. This program is accredited by the North Central Association of Colleges and Schools and approved by the Illinois Department of Professional Regulations, and the ICCB. The accreditation and approval of these agencies allow a graduate of the program to do the following:

1. Write the CAT-NCLEX-PN Examination. (This is the licensing examination that a graduate of any nursing program must pass in order to be employed as a practical nurse.)
2. Be employed as a practical nurse in any health care setting of choice, including state and federal institutions.
3. Be employed in any state in the nation.

Some agencies and the military may have additional requirements for employment.

### SECOND SEMESTER – SUMMER

Dept.	No.		Hrs.	Grade
PNE	105	Nursing throughout the Life Cycle	1	_____
PNE	193	Pediatric Nursing	<u>1.5</u>	_____
			2.5	

### THIRD SEMESTER – FALL

Dept.	No.		Hrs.	Grade
PNE	171	Pharmacology in Nursing II	2	_____
PNE	204	Adult Nursing I	2	_____
PNE	205	Medical/Surgical Clinic I	1.5	_____
PNE	209	I.V. Therapy	<u>.5</u>	_____
			6.0	

In addition to completing a College application, the applicant must be able to do the following: provide proof of graduation from an accredited high school, or possess a G.E.D. certificate; successfully complete the practical nursing pre-entrance examination, including mathematics and communication, ASSET Test or COMPASS Test, and provide proof of sound health to practice nursing.

The selection procedures are listed in the admission packet.

<http://www.jalc.edu/nursing/practical-nursing-program>

The graduate of the John A. Logan College Practical Nursing Program will be able to do the following as delegated by a registered professional nurse or an advanced practice nurse or as directed by a Physician Assistant, Physician or podiatrist and includes:

1. Collecting data and collaborating in the assessment of the health status of a patient.
2. Collaborating in the development and modification of a registered professional or advanced practice nurse's comprehensive nursing plan of care for all types of patients.
3. Implementing aspects of the plan of care as delegated.

### FOURTH SEMESTER – SPRING

Dept.	No.		Hrs.	Grade
PNE	183	Maternal and Newborn Health	1.5	_____
PNE	184	Obstetric Clinical	.5	_____
PNE	206	Adult Nursing II	2	_____
PNE	207	Medical/Surgical Clinic II	1.5	_____
PNE	208	Mental Health Nursing	<u>1</u>	_____
			6.5	

- 
4. Participating in the health teaching and counseling to promote, attain, and maintain the optimum health level of patients as delegated.
  5. Serving as an advocate for the patient by communicating and collaborating with other health service personnel, as delegated.
  6. Participating in the evaluation of patient responses to interventions
  7. Communicating and collaborating with other health care professionals, as delegated.
  8. Providing input in the development of policies and procedures to support patient safety. (Nurse Practice Act:250 LPN Scope of Practice) 2018

**Career Opportunities:**

- Medical office practices
- Flu clinics
- Home Health; Private Duty (especially disabled pediatric home bound patients)
- Nursing Homes
- Assisted Living Centers
- Senior Citizen Centers
- Rehabilitation Centers

*John A. Logan College reserves the right to modify this curriculum guide as needed. Please verify with your academic advisor the accuracy and time lines of this document.*



John A. Logan College

# Certificate Toward a Degree in Nursing-Practical Nursing

Career Curriculum 00LPN0061  
Minimum Hours: 35.5-36  
Major Code: 1.2 513901  
Effective Date: Summer 2021

## FIRST SEMESTER-SUMMER

Dept.	No.		Hrs.	Grade
ORI	111	PN Orientation	.5	_____

## SECOND SEMESTER – FALL

Dept.	No.		Hrs.	Grade
ALH	101	Cardiopulmonary Resuscitation or ALH 102 CPR Recertification <sup>1</sup>	.5-1.0	_____
BIO	205	Anatomy & Physiology I <sup>2</sup>	4	_____
PNE	101	Fundamentals of Nursing	3	_____
PNE	102	Nursing Procedures	2	_____
PNE	103	Clinical Nursing	1.5	_____
PNE	105	Nursing throughout the Life Cycle	1	_____
PNE	161	Pharmacology in Nursing I	2	_____
PNE	208	Mental Health Nursing	1	_____
PNE	209	I.V. Therapy	.5	_____
COM	116	Interpersonal Communication	<u>3</u>	_____
-			18.5-19	

## THIRD SEMESTER – SPRING

Dept.	No.		Hrs.	Grade
BIO	206	Anatomy & Physiology II	4	_____
PNE	171	Pharmacology in Nursing II	2	_____
PNE	183	Maternal and Newborn Health	1.5	_____
PNE	184	Obstetric Clinical	.5	_____
PNE	193	Pediatric Nursing	1.5	_____
PNE	204	Adult Nursing I	2	_____
PNE	205	Medical/Surgical Clinic I	1.5	_____
PNE	206	Adult Nursing II	2	_____
PNE	207	Medical/Surgical Clinic II	<u>1.5</u>	_____
-			16.5	

## NOTES AND INFORMATION

\*Students must maintain a "C" or higher in all courses.  
Students will be **required** to complete ALH 101 the Fall semester. No student will be exempt from this requirement.

<sup>1</sup> Students must be certified in CPR annually before starting clinical rotation.

<sup>2</sup> BIO 205 Human Anatomy and Physiology I must be completed by the end of the first semester or prior to program admittance. No prior credit will be given if a grade lower than a "C" was earned. It is strongly recommended that students without a high school or college background in biology take BIO 100 or 101 or 105 prior to BIO 205.

### Additional Information:

The applicant should contact the Assessment Office at the College and request an admissions packet to the Practical Nursing Program. The steps to be followed are specified in the packet.

The Practical Nursing Program is designed to provide an individual with the knowledge and skills to function as a safe and effective member of the health care team in the role of the practical nurse. Classroom theory, laboratory practice, and clinical experience are included in this three-semester certificate program. This program is accredited by the North Central Association of Colleges and Schools and approved by the Illinois Department of Professional Regulations, and the ICCB. The accreditation and approval of these agencies allow a graduate of the program to do the following:

1. Write the CAT-NCLEX-PN Examination. (This is the licensing examination that a graduate of any nursing program must pass in order to be employed as a practical nurse.)
2. Be employed as a practical nurse in any health care setting of choice, including state and federal institutions.
3. Be employed in any state in the nation.

Some agencies and the military may have additional requirements for employment.

In addition to completing a College application, the applicant must be able to do the following: provide proof of graduation from an accredited high school, or possess a G.E.D. certificate; successfully complete the practical nursing pre-entrance examination, including mathematics and communication, ASSET Test or COMPASS Test, and provide proof of sound health to practice nursing.

The selection procedures are listed in the admission packet.

<http://www.jalc.edu/nursing/practical-nursing-program>

The graduate of the John A. Logan College Practical Nursing Program will be able to do the following as delegated by a registered professional nurse or an advanced practice nurse or as directed by a Physician Assistant, Physician or podiatrist and includes:

1. Collecting data and collaborating in the assessment of the health status of a patient.
2. Collaborating in the development and modification of a registered professional or advanced practice nurse's comprehensive nursing plan of care for all types of patients.
3. Implementing aspects of the plan of care as delegated.

- 
4. Participating in the health teaching and counseling to promote, attain, and maintain the optimum health level of patients as delegated.
  5. Serving as an advocate for the patient by communicating and collaborating with other health service personnel, as delegated.
  6. Participating in the evaluation of patient responses to interventions
  7. Communicating and collaborating with other health care professionals, as delegated.
  8. Providing input in the development of policies and procedures to support patient safety. (Nurse Practice Act:250 LPN Scope of Practice) 2018

**Career Opportunities:**

- Medical office practices
- Flu clinics
- Home Health; Private Duty (especially disabled pediatric home bound patients)
- Nursing Homes
- Assisted Living Centers
- Senior Citizen Centers
- Rehabilitation Centers

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# Certificate

## Toward a Degree in

# Surgical Technology

Career Curriculum ORT5199  
 Minimum Hours: 38  
 Major Code: 1.2 510909  
 Effective Date: Spring 2014

### FIRST SEMESTER - FALL

Dept.	No.		Hrs.	Grade
BIO	206	Human Anatomy and Physiology II <sup>1</sup>	4	_____
STP	121	Introduction to Surgical Technology	3	_____
STP	122	Principles and Practices of Surgical Technology	6	_____
STP	127	Pharmacology for Health Professions	3	_____
			16	

### NOTES AND INFORMATION

\*Students must maintain a "C" or higher in all STP and general education classes.  
 BIO 205 is a prerequisite and must be completed before starting the program.

<sup>1</sup> BIO 206 must be completed by the end of the first semester.  
 BIO 226 must be completed by the end of the second semester

<sup>2</sup> Students must be certified in CPR for Healthcare Providers at the start of the program.

### SECOND SEMESTER - SPRING

Dept.	No.		Hrs.	Grade
STP	123	Surgical Procedures I	5	_____
BIO	226	General Microbiology <sup>1</sup>	4	_____
STP	125	Clinical Rotation in Surgical Technology I <sup>2</sup>	5	_____
			14	

**Additional Information:** The Surgical Technology Certificate is a one-year program offered at the community colleges through the Southern Illinois Collegiate Common Market (SICCM) and is a cooperative program with John A. Logan College and Shawnee Community College. This program is designed to provide students with the knowledge, skills, and attitudes necessary to practice as certified surgical technologists. Students successfully completing the program will be fully qualified for jobs as scrub surgical technologists and circulating surgical technologists in hospitals, surgical centers, clinics, and physicians' offices. The program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP), by recommendation of the Accreditation Review Committee on Education in Surgical Technology. Graduates of the accredited Surgical Technology program will sit for the National Certifying Exam for Surgical Technologists. The exam will be scheduled at the student's home campus. It is administered by the National Board of Surgical Technology and Surgical Assisting (NBSTSA), which is accredited by the National Commission for Certifying Agencies (NCCA). Successful completion of this exam confers the title of Certified Surgical Technologist (CST). The program is offered off campus in a central laboratory.

### THIRD SEMESTER - SUMMER

Dept.	No.		Hrs.	Grade
STP	124	Surgical Procedures II	3	_____
STP	126	Clinical Rotation in Surgical Technology II	5	_____
			8	

**Career Opportunities:** Assist during surgical operations in hospitals, doctor's offices and outpatient care centers.

**The Surgical Technology Program is accredited by:**  
**Commission on Accreditation of Allied Health Education Programs**  
 25400 U.S. Highway 19 North  
 Suite 158  
 Clearwater, FL 33763

*John A. Logan College reserves the right to modify this curriculum guide as needed. Please verify with your academic advisor the accuracy and time lines of this document.*





John A. Logan College

# Certificate Toward a Degree in Surveying Technician

Career Curriculum CMG 2020  
Minimum Hours:14  
Major Code: 1.2 151102  
Effective Date: Fall 2020

## FIRST YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
CMG	100	Construction Orientation	1	_____
CMG	104	Building Layout	4	_____
CMG	130	Surveying I	<u>3</u>	_____
			8	

## NOTES AND INFORMATION

### Fall Only Courses:

CMG 100

CMG 104

### Spring Only Courses:

CMG 218

## FIRST YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
CMG	131	Surveying II	3	_____
CMG	218	CAD for Residential Construction	<u>3</u>	_____
			6	

### **Career Opportunities:** Certified Surveying Technician

*John A. Logan College reserves the right to modify this curriculum guide as needed. Please verify with your academic advisor the accuracy and time lines of this document.*

The Surveying Technician Certificate Program (CMG2020) is an ICCB approved extension of the Construction Management Technology Associate in Applied Science Degree (CMG0033)



John A. Logan College

# Certificate Toward a Degree in Information System Technician

Career Curriculum ELT0106  
Minimum Hours:15  
Major Code: 1.2 470104  
Effective Date: Fall 2020

Dept.	No.		Hrs.	Grade
ELT	111	Digital Electronics I	3	_____
ELT	210	A+ Preparation Essentials	3	_____
ELT	214	A+ Preparation IT Technician	3	_____
ELT	218	Introduction to Network Technologies	3	_____
MAT	113	OR MAT 112-Intro to Contemporary Math	<u>3</u>	_____
			15	

## NOTES AND INFORMATION

The Information System Technician Certificate Program (ELT 0106) is an ICCB approved extension of the Computer Support and Networking AAS Degree (00ELT3015).

**Career Opportunities:** computer hardware engineer, computer technician, computer support specialists, network/computer support administrator, network installer.

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John A. Logan College

# Certificate

Toward a Degree in

## Medical Assistant\*

Career Curriculum MDA2006

Minimum Hours: 35

Major Code: 1.2 510801

Effective Date: Fall 2022

### FIRST YEAR – SU MMER SEMESTER

Dept. No.	Hrs.	Grade
BUS 115 Keyboarding <sup>1</sup>	1	_____
NAD 101 Nursing Assistant Training <sup>2</sup>	7	_____
	8	

### NOTES AND INFORMATION

\* All MDA courses must be taken in the sequence stated in the curriculum. Students must maintain a "C" or higher in all courses in order to graduate from the program. Drug screening, immunizations and criminal background checks are required for MDA 134.

### FIRST YEAR – FALL SEMESTER

Dept. No.	Hrs.	Grade
MDA 101 Introduction to Medical Assisting	1	_____
HIT 217 Medical Terminology	3	_____
MDA 128 Administrative Skills for Medical Assisting	8	_____
	12	

<sup>1</sup> Proficiency exam is available for BUS 115 for students entering the program with a sound background in keyboarding. See your advisor or the chairperson of the Business, Computer and Mathematics Departments.

<sup>2</sup> NAD 101 must be completed by the end of the first semester or prior to application into the Medical Assistant program. Registration with the Illinois Department of Health-Health Care Worker Registry is required for background check purposes only.

<sup>3</sup> MDA 134 course requirements can be fulfilled by completing 160 hours of practical experience. Students may choose an Externships in the Spring or an Apprenticeship in the Fall and Spring semesters.

### FIRST YEAR – SPRING SEMESTER

Dept. No.	Hrs.	Grade
MDA 130 Pharmacology	3	_____
MDA 132 Medical Clinic Procedures	4	_____
MDA 133 Medical Office Laboratory Procedures	2	_____
MDA 134 Practical Skills for Medical Assisting <sup>3</sup>	6	_____
	15	

**Career Opportunities:** This certificate program is a concentrated program of study in medical assisting designed to train individuals to become multi-skilled professionals in an ambulatory healthcare setting. Medical assistants are allied health professionals who function as a member of a health care delivery team and perform routine, yet essential, administrative and clinical procedures.

Graduates are eligible to sit for the following certification exams:

- National Center for Competency Testing (NCCT)

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John A. Logan College

# Certificate Toward a Degree in Nursing-Practical Nursing 5-Semester Part-Time

Career Curriculum 00LPN0061  
Minimum Hours: 35.5-36  
Major Code: 1.2 513901 Effective  
Date: Fall 2022

## REQUIRED GENERAL EDUCATION COURSES

Dept.	No.		Hrs.	Grade
ALH	101	Cardiopulmonary Resuscitation <sup>1</sup>	1.0	_____
BIO	205	Human Anatomy and Physiology I <sup>2</sup>	4	_____
BIO	206	Human Anatomy and Physiology II	4	_____
COM	115	Speech OR COM 116 Interpersonal Communication	3 12	_____ _____

## FIRST SEMESTER – SPRING

Dept.	No.		Hrs.	Grade
ORI	111	PN Orientation	.5	_____
PNE	101	Fundamentals of Nursing	3	_____
PNE	102	Nursing Procedures	2	_____
PNE	103	Clinical Nursing	1.5	_____
PNE	161	Pharmacology in Nursing I	2 9	_____ _____

## SECOND SEMESTER – SUMMER

Dept.	No.		Hrs.	Grade
PNE	105	Nursing throughout the Life Cycle	1	_____
PNE	193	Pediatric Nursing	1.5 2.5	_____ _____

## THIRD SEMESTER – FALL

Dept.	No.		Hrs.	Grade
PNE	171	Pharmacology in Nursing II	2	_____
PNE	204	Adult Nursing I	2	_____
PNE	209	I.V. Therapy	.5 4.5	_____ _____

## FOURTH SEMESTER – SPRING

Dept.	No.		Hrs.	Grade
PNE	183	Maternal and Newborn Health	1.5	_____
PNE	184	Obstetric Clinical	.5	_____
PNE	206	Adult Nursing II	2	_____
PNE	207	Medical/Surgical Clinic	3.0	_____
PNE	208	Mental Health Nursing	1 8	_____ _____

## NOTES AND INFORMATION

\* Students must maintain a "C" or higher in all courses.  
Students will be **required** to complete ALH 101 the Fall semester. No student will be exempt from this requirement.

<sup>1</sup> Students must be certified in CPR annually before starting clinical rotation.

<sup>2</sup> BIO 205 Human Anatomy and Physiology I must be completed by the end of the first semester or prior to program admittance. No prior credit will be given if a grade lower than a "C" was earned. It is strongly recommended that students without a high school or college background in biology take BIO 100 or 101 or 105 prior to BIO 205.

### Additional Information:

The applicant should contact the Assessment Office at the College and request an admissions packet to the Practical Nursing Program. The steps to be followed are specified in the packet.

The Practical Nursing Program is designed to provide an individual with the knowledge and skills to function as a safe and effective member of the health care team in the role of the practical nurse. Classroom theory, laboratory practice, and clinical experience are included in this three-semester certificate program. This program is accredited by the North Central Association of Colleges and Schools and approved by the Illinois Department of Professional Regulations, and the ICCB. The accreditation and approval of these agencies allow a graduate of the program to do the following:

1. Write the CAT-NCLEX-PN Examination. (This is the licensing examination that a graduate of any nursing program must pass in order to be employed as a practical nurse.)
2. Be employed as a practical nurse in any health care setting of choice, including state and federal institutions.
3. Be employed in any state in the nation.

Some agencies and the military may have additional requirements for employment.

In addition to completing a College application, the applicant must be able to do the following: provide proof of graduation from an accredited high school, or possess a G.E.D. certificate; successfully complete the practical nursing pre-entrance examination, including mathematics and communication, ASSET Test or COMPASS Test, and provide proof of sound health to practice nursing.

The selection procedures are listed in the admission packet.  
<http://www.jalc.edu/nursing/practical-nursing-program>

The graduate of the John A. Logan College Practical Nursing Program will be able to do the following as delegated by a registered professional nurse or an advanced practice nurse or as directed by a Physician Assistant, Physician or podiatrist and includes:

1. Collecting data and collaborating in the assessment of the health status of a patient.
2. Collaborating in the development and modification of a registered professional or advanced practice nurse's comprehensive nursing plan of care for all types of patients.
3. Implementing aspects of the plan of care as delegated.

- 
4. Participating in the health teaching and counseling to promote, attain, and maintain the optimum health level of patients as delegated.
  5. Serving as an advocate for the patient by communicating and collaborating with other health service personnel, as delegated.
  6. Participating in the evaluation of patient responses to interventions
  7. Communicating and collaborating with other health care professionals, as delegated.
  8. Providing input in the development of policies and procedures to support patient safety. (Nurse Practice Act:250 LPN Scope of Practice) 2018

**Career Opportunities:**

- Medical office practices
- Flu clinics
- Home Health; Private Duty (especially disabled pediatric homebound patients)
- Nursing Homes
- Assisted Living Centers
- Senior Citizen Centers
- Rehabilitation Centers

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**Certificate**  
Toward a Degree in  
**Advanced SMAW**  
**(Stick)Welding Technology**

Career Curriculum WEL63  
Minimum Hours: 10  
Major Code: 1.2 480508  
Effective Date: Spring 2022

**FIRST YEAR – FALL SEMESTER**

Dept.	No.		Hrs.	Grade
MAC	180	Blueprint Reading	3	_____
WEL	123	SMAW(STICK) Plate Welding II	3	_____
WEL	125	Weld Testing and Inspection	4	_____
			10	

**NOTES AND INFORMATION**

**Prerequisite:** OSHA 10-hour Certification and Completion of Basic SMAW (Stick) Welding Technology Certificate

**Career Opportunities:** Upon successful completion of the Welding Technology Certificate, the student will have the opportunity to enter the workforce as a welding technician. The program will prepare graduates for entry into union trades positions including boilermakers, plumbers & pipefitters, structural steel workers, rail car repair and general maintenance; small and medium job shops.

*John A. Logan College reserves the right to modify this curriculum guide as needed. Please verify with your academic advisor the accuracy and time lines of this document.*

The Advanced SMAW (Stick) Welding Certificate Program (WEL 63) is an ICCB approved extension of the Welding Technology Associate in Applied Science Degree (WEL 2010)

JALC Welding Program is an educational member of:

**American Welding Society**  
8669 NW 36 Street  
Suite 130  
Doral, FL 33166





John A. Logan College

# Certificate in Paint and Metal Technician

Career Curriculum AUT0115  
Minimum Hours: 18  
Major Code: 1.2 470603K  
Effective Date: Spring 2012

Dept.	No.		Hrs.	Grade
ACT	190	Auto Body Repair I	2	_____
ACT	191	Metal Finishing and Painting	2	_____
ACT	192	Frame and Body Alignment	2	_____
ACT	193	Advanced Auto Body Repair	1	_____
ACT	194	Body Shop Management	1	_____
ACT	196	Auto Body Lab	5	_____
ACT	197	Auto Body Repair and Paint Lab II	5	_____
			18	

## NOTES AND INFORMATION

The Paint & Metal Technician Certificate Program (AUT 0115) is an ICCB approved extension of the Auto Collision Technology Certificate Program (AUT 0014).

**Career Opportunities:** Auto Body Painter, Painter's Helper, Paint Prepper, Auto Body Shop Receptionist, Entry-Level Metal Fabricator, Collision Technician

*John A. Logan College reserves the right to modify this curriculum guide as needed. Please verify with your academic advisor the accuracy and time lines of this document.*





**Certificate**  
Toward a Degree in  
**BASIC GMAW (MIG)Welding**  
**Technology**

Career Curriculum WEL62  
Minimum Hours:8  
Major Code: 1.2 480508  
Effective Date: Spring 2022

**FIRST YEAR – FALL SEMESTER**

Dept.	No.		Hrs.	Grade
IND	201	Metallurgy	2	_____
WEL	120	OXYFUEL Welding, Cutting & Brazing	3	_____
WEL	121	SMAW (STICK) Plate Welding I	3	_____
			8	

**NOTES AND INFORMATION**

**Prerequisite: OSHA 10-hour General Certification**

**Career Opportunities:** Upon successful completion of the Welding Technology Certificate, the student will have the opportunity to enter the workforce as a welding technician. The program will prepare graduates for entry into union trades positions including boilermakers, plumbers & pipefitters, structural steel workers, rail car repair and general maintenance; small and medium job shops.

*John A. Logan College reserves the right to modify this curriculum guide as needed. Please verify with your academic advisor the accuracy and time lines of this document.*

The Basic GMAW (MIG) Welding Certificate Program (WEL 62) is an ICCB approved extension of the Welding Technology Associate in Applied Science Degree (WEL 2010)

JALC Welding Program is an educational member of:

**American Welding Society**  
8669 NW 36 Street  
Suite 130  
Doral, FL 33166





# Certificate

Toward a Degree in

## Basic GTAW (TIG)Welding Technology

Career Curriculum WEL61  
Minimum Hours: 9  
Major Code: 1.2 480508  
Effective Date: Spring 2022

### FIRST YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
MAC	180	Blueprint Reading	3	_____
WEL	124	GTAW(TIG) Plate Welding I	3	_____
WEL	129	GTAW(TIG) Welding II	3	_____
			9	

### NOTES AND INFORMATION

**Prerequisite:** OSHA 10-hour General Certificate

**Career Opportunities:** Upon successful completion of the Welding Technology Certificate, the student will have the opportunity to enter the workforce as a welding technician. The program will prepare graduates for entry into union trades positions including boilermakers, plumbers & pipefitters, structural steel workers, rail car repair and general maintenance; small and medium job shops.

*John A. Logan College reserves the right to modify this curriculum guide as needed. Please verify with your academic advisor the accuracy and time lines of this document.*

The Basic GTAW (TIG) Welding Certificate Program (WEL 61) is an ICCB approved extension of the Welding Technology Associate in Applied Science Degree (WEL 2010)

JALC Welding Program is an educational member of:

American Welding Society  
8669 NW 36 Street  
Suite 130  
Doral, FL 33166





John A. Logan College

# Certificate Toward a Degree in Basic SMAW (Stick)Welding Technology

Career Curriculum WEL60  
Minimum Hours: 8  
Major Code: 1.2 480508  
Effective Date: Spring 2022

## FIRST YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
IND	201	Metallurgy	2	_____
WEL	120	OXYFUEL Welding, Cutting & Brazing	3	_____
WEL	121	SMAW (STICK) Plate Welding I	3	_____
			8	

## NOTES AND INFORMATION

**Prerequisite:** OSHA 10-hour General Certification

**Career Opportunities:** Upon successful completion of the Welding Technology Certificate, the student will have the opportunity to enter the workforce as a welding technician. The program will prepare graduates for entry into union trades positions including boilermakers, plumbers & pipefitters, structural steel workers, rail car repair and general maintenance; small and medium job shops.

*John A. Logan College reserves the right to modify this curriculum guide as needed. Please verify with your academic advisor the accuracy and time lines of this document.*

The Basic SMAW (Stick) Welding Certificate Program (WEL 60) is an ICCB approved extension of the Welding Technology Associate in Applied Science Degree (WEL 2010)

JALC Welding Program is an educational member of:

American Welding Society  
8669 NW 36 Street  
Suite 130  
Doral, FL 33166





# Certificate in Cosmetology Teacher Program

Career Curriculum 00COS0057  
Minimum Hours:13  
Major Code: 1.2 120413Q  
Effective Date: Summer 2023

## SEMESTER HOURS

Dept.	No.		Hrs.	Grade
COS	250	Instructional Strategies <sup>1,2</sup>	5	_____
COS	251	Cosmetology Teacher Program <sup>1,2</sup>	<u>8</u>	_____
			13	

## NOTES AND INFORMATION

\*Prerequisite: Must have a valid Illinois cosmetology license with a minimum of 2 years full-time work experience within the last 5 years. Letters from clients, managers, etc., verifying 2 years experience

<sup>1</sup> Courses are taught on an independent basis and can be taken in either the fall or spring semester.

<sup>2</sup> Students must maintain a "C" or higher in all cosmetology courses.

The Cosmetology Teacher Program Certificate (00COS0057) is an ICCB approved extension of the Cosmetology Certificate Program (00COS0056).

**Career Opportunities:** Cosmetology teacher in the state of Illinois with the opportunity for reciprocity in other states in equal agreement.

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John A. Logan College

# Certificate in Customer Service

Career Curriculum 00BUS0021  
Minimum Hours:24  
Major Code: 1.2 520411  
Effective Date: Fall 2021

## FALL SEMESTER

Dept.	No.		Hrs.	Grade
BUS	116	Keyboarding <sup>1</sup>	3	_____
BUS	135	Office Language Skills	3	_____
BUS	255	Customer Service	3	_____
CIS	207	Computer Applications for Business	<u>3</u>	_____
			12	

## NOTES AND INFORMATION

<u>Fall Only Courses</u>	<u>Spring Only Courses</u>
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BUS 255	MGT 112
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<sup>1</sup> Proficiency exams are available for BUS 116 (requiring a production test as well as 40 wpm with no more than three errors on a three-minute straight-copy timing) and BUS 117 (requiring 55 wpm with no more than three errors on a three-minute straight-copy timing) for students entering the program with a sound background in keyboarding. See your advisor or the chairperson of the Business Department for information.

## SPRING SEMESTER

Dept.	No.		Hrs.	Grade
ACC	100	Business Accounting OR ACC 200 Financial Accounting I	3	_____
BUS	235	Business Communication	3	_____
MGT	112	Principles of Management	3	_____
COM	115	Speech OR COM 116 Interpersonal Communication	<u>3</u>	_____
			12	

The Customer Service Certificate Program (00BUS0021) is an ICCB approved extension of the Administrative Assistant AAS Degree (00BUS0009).

**Career Opportunities:** Students successfully completing this program will receive a Certificate of Achievement. This one-year curriculum provides students with the training required to fill support services positions such as a customer service representative or associate in any type of business or other organization.

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# Certificate Toward a Degree in Director's Credential

Career Curriculum 00CHC0018  
Minimum Hours:8  
Major Code: 1.2 190709  
Effective Date: Spring 2011

Dept.	No.	
ECE	279	Management Internship <sup>1</sup>
ECE	280	Professional Development

Hrs.	Grade
4	_____
$\frac{4}{8}$	_____
8	

## NOTES AND INFORMATION

\* Prerequisite: A.A.S. in Early Childhood Education

<sup>1</sup> One year of full-time early childhood education management experience in a licensed center will waive this course.

The Early Childhood Education Director's Credentials Certificate Program (00CHC0018) is an ICCB approved extension of the Early Childhood Education AAS Degree (ECE 0005).

**Additional Information:** John A. Logan College Early Childhood Education Program is approved by the Illinois Network of Child Care Resources & Referral Agencies (INCCRRA) as an Illinois Director Credential Entitled Institution. John A. Logan College works directly with Gateways to Opportunity, a branch of INCCRRA to award this credential. As an entitled Illinois Director Credential (IDC) institution, John A. Logan College Early Childhood Education Program will verify the attainment of the IDC requirements and submit recommendation to the statewide Professional Development Advisory Council (PDAC) for review and confirmation. Upon the approval of PDAC, the IDC will be awarded. Core knowledge and skills will be validated in 5 areas:

1. General Education
2. Early Childhood/School-age Knowledge
3. Management Knowledge & Skills
4. Management & Teaching Experience
5. Professional Contributions to the Field

Students interested in the Illinois Director Credential should see the Early Childhood Education academic advisor. Students can complete the requirements for the IDC by:

1. First completing the AAS Degree in Early Childhood Education;
2. Completing the child care Management Internship (ECE 279); and
3. Completing 2 professional development activities (ECE 280).

The Illinois Director Credential prepares students to work more effectively as child care advocates and administrators in early childhood programs. The attainment of the IDC is one to be proud of. It serves as a symbol of individual achievement and demonstration of leadership and commitment beyond the scope of daily routine management through professional contributions to the field. The IDC is a tool to promote high standards of excellence, professionalism among staff, and quality care and education of children enrolled in early childhood programs. For more information about the IDC credential, call 1-888-548-8080 or visit Gateways to Opportunity website @ [www.ilgateways.com](http://www.ilgateways.com).

**Career Opportunities:** Assistant director, director, supervisor, coordinator, or child care advocate in child care center or other early childhood programs, organizations or social services for children and their families.

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# Certificate

## Toward a Degree in

# Home Performance Specialist

Career Curriculum HAC2016  
 Minimum Hours:25  
 Major Code:151701  
 Effective Date: Fall 2018

### FIRST YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
CMG	100	Construction Orientation	1	_____
CMG	110	Wood Frame Construction	4	_____
HAC	102	Residential Electrical Wiring	4	_____
HAC	140	Weatherization	3	_____
			12	

### NOTES AND INFORMATION

<u>Fall Only Courses</u>		<u>Spring Only Courses</u>	
CMG	100	HAC	131
CMG	110	HAC	224
HAC	102	CMG	215
HAC	140		

### FIRST YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
CMG	107	Construction Document Interpretation	3	_____
CMG	215	Green Building in the 21 <sup>st</sup> Century	3	_____
HAC	131	Refrigeration I	4	_____
HAC	224	Geothermal Systems	3	_____
			13	

This is a Gainful Employment Certificate Program of 16 credit hours or more that prepares the student for gainful employment in a recognized occupation. For detailed information regarding program length, cost, average loan debt and completion details, select the following link to the Gainful Employment Worksheet for this program. [Gainful Employment Worksheet–Home Performance Specialist Certificate Program \(HAC2016\)](http://www.jalc.edu/gainful_employment/home_performance_specialist/Gedt.html). You can also access this information by typing the following URL into your browser’s address bar: [http://www.jalc.edu/gainful\\_employment/home\\_performance\\_specialist/Gedt.html](http://www.jalc.edu/gainful_employment/home_performance_specialist/Gedt.html)

**Career Opportunities:** Energy Auditor, Home Performance Coordinator, Energy Consultant, Installation of Home Performance products (ERV’s, Insulation services, and HRV systems), Sales Consultant, Building Inspector

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# Certificate

Toward a Degree in

## Industrial PLC Systems

Career Curriculum 00ELT3013  
 Minimum Hours: 29  
 Major Code: 1.2 150303X  
 Effective Date: Fall 2022

### FALL SEMESTER

Dept.	No.		Hrs.	Grade
ELT	102	Basic Electricity and Wiring	4	_____
IDM	210	Hydraulics & Pneumatics	4	_____
MAT	100	Mathematics for Applied Technologies	3	_____
MFT	103	Industrial Robots and PLCs	3	_____
			<u>14</u>	

### NOTES AND INFORMATION

Fall only courses:		Spring only courses:	
IDM	210	ELT	103
MFT	103	ELT	104
		ELT	150
		ELT	224
		MFT	201

The Industrial PLC Systems Certificate Program (00ELT3013) is an ICCB approved extension of the Industrial Maintenance Engineering AAS Degree (00ELT3012) which is the parent to:

- PLC Technician Certificate (ELT 2006)

### SPRING SEMESTER

Dept.	No.		Hrs.	Grade
ELT	103	Applied DC/AC Circuits	4	_____
ELT	104	Introduction to VFDs	2	_____
ELT	150	Applied Solid State Electronics	3	_____
ELT	224	Power Distribution and Motors	3	_____
MFT	201	PLC Manufacturing Systems	3	_____
			<u>15</u>	

This is a Gainful Employment Certificate Program of 16 credit hours or more that prepares the student for gainful employment in a recognized occupation. For detailed information regarding program length, cost, average loan debt and completion details, select the following link to the Gainful Employment Worksheet for this program. [Gainful Employment Worksheet—Industrial PLC Systems Certificate Program \(00ELT3013\)](#).

You can also access this information by typing the following URL into your browser's address bar:

[http://www.jalc.edu/gainful\\_employment/industrial\\_plc\\_systems/Gedt.html](http://www.jalc.edu/gainful_employment/industrial_plc_systems/Gedt.html)

**Career Opportunities:** Entry-level PLC maintenance and PLC System Programmer.

#### JALC ELT Programs are education members of:



Institute of Electrical and Electronics Engineers  
 445 Hoes Lane  
 Piscataway, NJ 08854



Association for Computing Machinery  
 1601 Broadway, 10th Floor  
 New York, NY 10019-7434

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John A. Logan College

# Certificate Toward a Degree in Information System Technician

Career Curriculum ELT0106  
Minimum Hours:15  
Major Code: 1.2 470104Q  
Effective Date: Fall 2020

Dept.	No.		Hrs.	Grade
ELT	111	Digital Electronics I	3	_____
ELT	210	A+ Preparation Essentials	3	_____
ELT	214	A+ Preparation IT Technician	3	_____
ELT	218	Introduction to Network Technologies	3	_____
MAT	113	OR MAT 112-Intro to Contemporary Math	<u>3</u>	_____
			15	

## NOTES AND INFORMATION

The Information System Technician Certificate Program (ELT 0106) is an ICCB approved extension of the Computer Support and Networking AAS Degree (00ELT3015).

**Career Opportunities:** computer hardware engineer, computer technician, computer support specialists, network/computer support administrator, network installer.

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John A. Logan College

# Certificate Toward a Degree in Medical Clerk

Career Curriculum 00BUS0017  
Minimum Hours: 18  
Major Code: 1.2 510716  
Effective Date: Fall 2022

## FALL SEMESTER

Dept.	No.		Hrs.	Grade
BUS	116	Keyboarding <sup>1</sup>	3	_____
BUS	135	Office Language Skills	3	_____
HIT	217	Medical Terminology	<u>3</u>	_____
			9	

## SPRING SEMESTER

Dept.	No.		Hrs.	Grade
BUS	280	Computer Applications for the Medical Office	3	_____
BUS	270	Medical Office Procedures	3	_____
CIS	207	Computer Applications for Business	<u>3</u>	_____
			9	

## NOTES AND INFORMATION

### Spring Only Courses:

BUS 270  
BUS 280

<sup>1</sup> Proficiency exam is available for BUS 116 (requiring a production test as well as 40 wpm with no more than three errors on a three-minute straight-copy timing) for students entering the program with a sound background in keyboarding. See your advisor or the chairperson of the Business Education Department for information.

The Medical Clerk Certificate Program (00BUS0017) is an ICCB approved extension of the Medical Administrative Assistant AAS Degree (00BUS0012).

**Career Opportunities:** Positions as a medical office receptionist, medical file clerk, hospital clerk, medical records clerk, intake clerk, and those formerly known as ward clerks.

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# Certificate

Toward a Degree in

## Nursing Assistant

Career Curriculum 00NAD0055  
Minimum Hours: 7  
Major Code: 1.2 513902  
Effective Date: Fall 2008

**Dept. No.**  
NAD 101 Nursing Assistant Training

**Hrs.**  
 $\frac{7}{7}$

**Grade**  
\_\_\_\_\_

### NOTES AND INFORMATION

**Additional Information:** This course is designed for students interested in becoming nursing assistant. Students receive training that will enable them to work in hospitals, long-term care facilities, or other health care facilities. A criminal background check is completed as a part of the program. This program is approved by the Illinois Department of Public Health.

**Career Opportunities:**

- Acute Care Hospitals
- Nursing Homes Long-term Care
- Rehabilitation Centers
- Assisted Living Centers
- Home Health

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John A. Logan College

# Certificate

Toward a Degree in

## Office Assistant

Career Curriculum 00BUS0016  
Minimum Hours: 21  
Major Code: 1.2 520401K  
Effective Date: Fall 2022

### FALL SEMESTER

Dept.	No.		Hrs.	Grade
BUS	116	Keyboarding <sup>1</sup>	3	_____
BUS	135	Office Language Skills	3	_____
CIS	207	Computer Applications for Business	<u>3</u>	_____
			9	

### NOTES AND INFORMATION

<sup>1</sup> Proficiency exam is available for BUS 116 (requiring a production test as well as 40 wpm with no more than three errors on a three-minute straight-copy timing) for students entering the program with a sound background in keyboarding. See your advisor or the chairperson of the Business Education Department for information.

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### SPRING SEMESTER

Dept.	No.		Hrs.	Grade
ENG	101	English Composition	3	_____
BUS	237	Office Procedures	3	_____
MAT	113	OR MAT 112 Introduction to Contemporary Mathematics <sup>2</sup> OR BUS 111 Business Mathematics <sup>2</sup>	3	_____
COM	115	Speech <sup>2</sup> OR COM 116 Interpersonal Communication	<u>3</u>	_____
			12	

<sup>2</sup> Students pursuing the Health Care Management Capstone Option at SIUC or a baccalaureate degree at another institution should take MAT 113 or MAT 112 and COM 115.

The Office Assistant Certificate Program (00BUS0016) is an ICCB approved extension of the Office Supervision and Management AAS degree (00BUS0013)

**Career Opportunities:** Positions as an office assistant or a general office clerk are available in almost every area of the economy. Those industries employing the largest number include local government, general medical and surgical hospitals, elementary and secondary schools, colleges, universities, professional schools, and employment services.

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# Certificate

## Toward a Degree in

# Welding Technology

Career Curriculum 00WEL0060  
 Minimum Hours: 24  
 Major Code: 1.2 480508  
 Effective Date: Fall 2021

### FIRST YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
IND	201	Metallurgy	2	_____
WEL	120	Oxyfuel Welding, Cutting and Brazing	3	_____
WEL	121	SMAW(STICK) Plate Welding I	3	_____
WEL	122	GMAW(MIG) Plate Welding I	<u>3</u>	_____
			11	

### NOTES AND INFORMATION

Prerequisite: OSHA 10-hour General Certification

JALC Welding Program is an educational member of:

**American Welding Society**  
 8669 NW 36 Street  
 Suite 130  
 Doral, FL 33166



**Career Opportunities:** Upon successful completion of the Welding Technology Certificate, the student will have the opportunity to enter the workforce as a welding technician. The program will prepare graduates for entry into union trades positions including boilermakers, plumbers & pipefitters, structural steel workers, rail car repair and general maintenance; small and medium job shops.

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### FIRST YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
MAC	180	Blueprint Reading	3	_____
WEL	123	SMAW(STICK) Plate Welding II	3	_____
WEL	124	GTAW(TIG) Plate Welding I	3	_____
WEL	125	Weld Testing & Inspection	<u>4</u>	_____
			13	

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## Accounting (ACC)

### ACC 100 Business Accounting

3 Hours

Prerequisites: None

3 hours weekly (3-0)

This is a practical accounting course for non-accounting majors. It includes a study of the elements of accounting, accounting procedures, conceptual framework, business transactions, common journals, posting, trial balance, worksheet, adjusting entries, income statement, balance sheet, statement of owner's equity, closing entries, post-closing trial balance, accounting for cash, accounting for purchases and sales, and payroll accounting.

### ACC 105 Payroll Accounting

3 Hours

Prerequisites: ACC 100 or ACC 200 or consent of department chair

3 hours weekly (3-0)

Introduction to payroll accounting as related to business. Includes law related to payroll, wages and salaries, social security taxes, income tax withholding, unemployment compensation taxes, and payroll transactions.

### ACC 200 Financial Accounting I

IAI – BUS 903

3 Hours

Prerequisites: None

3 hours weekly (3-0)

Financial Accounting is designed to be a complete learning package for the first accounting course at the college level. Financial Accounting presents accounting as an information system that produces summary

financial statements, primarily for users external to a business or other enterprise. Students study the forms of business organizations and the common transactions entered into by businesses. The emphasis is on understanding and applying basic accounting principles and other concepts that guide the reporting of the effect of transactions and other economic events on the financial condition and operating results of a business. How to analyze and interpret historical financial statements and the limitation of using these in making forward-looking business decisions are included. The course will expose the students to such topics as ethics, alternative forms of business organizations, typical business practices, legal instruments and financial statements. Woven throughout all of this is the step-by-step instruction needed to understand and apply the concepts, principles, and practices of the modern accounting system according to generally accepted accounting principles.

### ACC 201 Financial Accounting II

IAI – BUS 903

3 Hours

Prerequisites: ACC 200

3 hours weekly (3-0)

Financial Accounting II is designed to complement the learning process started in Financial Accounting I. This course will continue the study of the forms of business organization and the transactions required for the owner's equity section of partnerships and corporations. The primary content will be accounting for current and long-term assets and liabilities, stock and bond transactions from both the issuer's and the buyer's perspective, corporate financial statements, including accounting for cash flow, extraordinary items, discontinued operations, changes in accounting principles, income taxes, and financial statement analyses.

Present value will be introduced in conjunction with the valuation of both assets and liabilities.

### **ACC 202 Managerial Accounting**

IAI – BUS 904

3 Hours

Prerequisites: ACC 201 (SIU 220) and sophomore standing

3 hours weekly (3-0)

This course provides an introduction to accounting techniques used by internal company managers when they are faced with planning, directing, controlling and decision-making activities in their organizations. Managerial accounting is presented as a system of producing information for use in internally managing a business. The course emphasizes the identification, accumulation, and interpretation of information for planning, controlling, and evaluating the performance of separate components of a business. Included is the identification and measurement of the costs of producing goods or services and how to analyze and control these costs. Decision models commonly used in making specific short- and long-term business decisions are also included. Accounting information can be used to identify and analyze alternatives and to guide the manager to a course of action that will yield the greatest benefit to the firm. While the major emphasis in financial accounting is on the accumulation and presentation of historical accounting data to external decision-makers, the emphasis in managerial accounting is on the presentation and analysis of that data to the internal decision-makers.

### **ACC 218 Tax Accounting**

3 Hours

Prerequisites: ACC 201

3 hours weekly (3-0)

Introduction to federal income tax structure as related to the individual and to the small business person. Includes individual income tax return, gross income and exclusions, business income and expenses, itemized deductions, other incentives, credits, and special taxes.

### **ACC 225 Integrated Accounting on Computers**

3 Hours

Prerequisites: ACC 100 or ACC 200 or consent of department chair

3 hours weekly (3-0)

Introduction to computerized accounting programs. Includes accounts payable, accounts receivable, depreciation, financial statements, general ledger, inventory, and payroll.



## **AGRICULTURE (AGR)**

### **AGR 101 Agriculture Economics**

IAI AG 901

3 hours

Prerequisite: None

3 hours weekly (3-0)

An introduction to the principles of economics with a focus on the agricultural industry. The course is designed to learn or reinforce basic economic principles and apply them to agriculture. These principles include supply and demand, trade, elasticity, government policies, market efficiencies and inefficiencies, the costs of production, international trade and an introduction to macroeconomic policies.

### **AGR 102 Introduction to Crop Science**

IAI AG 903

4 hours

Prerequisite: None

5 hours weekly (3-2)

This course will study the science and practices of the production of important agricultural crops in Illinois. In addition, the environmental factors effecting crop growth such as climate, light, air, soil composition and soil fertility will be studied. The classification and identification will be investigated as well.

### **AGR 103 Introduction to Horticulture**

IAI AG 905

3 hours

Prerequisite: None

4 hours weekly (2-2)

An introduction to the principles and practices in the development, production, and use of

horticultural crops. The course will cover the chemical, biological and environmental conditions for plant growth, as well as seed propagation and asexual reproduction. In addition, insects/diseases and their control in the greenhouse will be covered too.

### **AGR 104 Introduction to Soil Science**

IAI AG 904

3 hours

Prerequisites: None

4 hours weekly (2-2)

An introduction to the chemical, physical, and biological properties of soils; the origin, classification, and distribution of soils and their influence on people and food production; the management and conservation of soils; and the environmental impact of soil use.

### **AGR 111 Introduction to Agriculture Education**

IAI AG 911

3 hours

Prerequisite: None

3 hours weekly (3-0)

An introduction to the philosophy of education, in general, and career and technical education, specifically; the history of and current issues in agriculture education and the FFA; the nature of the educative process; the characteristics, duties, and responsibilities of successful teachers; the components of a successful agriculture program; the role of professional organizations in agriculture education; state teacher certification requirements; edTPA, Illinois agriculture education organizations and initiatives, and student differences for individualized instruction. Includes directed observation of agriculture teachers in school classrooms.

**AGR 112 Computers in Agriculture**

IAI AG 913

3 hours

Prerequisites: None

4 hours weekly (2-2)

Designed for students in agriculture with a focus on computer hardware, file manipulation, printers and the use of word processing, electronic presentations and communications, graphics, spreadsheet, database management with the MS Office Suite. Also includes solution of agriculture data-related problems and use of prepared software used in the agriculture industry.

**AGR 121 Introduction to Animal Science**

IAI AG 902

4 hours

Prerequisite: None

5 hours weekly (3-2)

A comprehensive view of the livestock industry as a science. Study is based upon biological principles with application to modern livestock management practices for beef, dairy cattle, swine, sheep, goats, poultry and horses. Includes animal breeds, breeding and selection; anatomy, physiology, nutrition, growth; environment, animal behavior, animal health; and current trends in the animal industry. Laboratory to supplement lectures and discussions.

**AGR 122 Introduction to Agriculture Mechanics**

IAI AG 906

3 hours

Prerequisite: None

4 hours weekly (2-2)

An introduction to agricultural power and machinery, agricultural electrification and applications, construction planning and tools, surveying and soil/water conservation as well as metal fabrication. A major emphasis of this introductory course will be applied applications of proper tool usage and procedures for basic agricultural mechanic skills.

## **Air Force ROTC (AFS)**

### **AFS 101 Heritage and Values, Part I**

1 Hour (Same as AS101 at SIUC)

Prerequisites: Concurrent enrollment in AFS 101A

Heritage and Values I. Part 1 of a 2-part course. This is a survey course designed to introduce students to the Department of the Air Force (DAF) and provides an overview of the basic characteristics, missions, and organization of the Air and Space Forces. Course is open to all students.

### **AFS 101A Leadership Laboratory**

2 Hours (Same as AS101A at SIUC)

Prerequisites: Concurrent enrollment in AFS 101

Leadership Laboratory (LLAB) is a dynamic and integrated grouping of leadership developmental activities designed to meet the needs and expectations of prospective Department of the Air Force second lieutenants and complement the AFROTC academic program. It is a student planned, organized, and executed practicum conducted under the supervision of the Detachment Commander and Operations Flight Commander.

### **AFS 102 Heritage and Values, Part II**

1 Hour (Same as AS102 at SIUC)

Prerequisites: Concurrent enrollment in AFS 102A.

Heritage and Values 2. Part 2 of a 2-part course. This is a survey course designed to introduce students to the Department of the Air Force (DAF) and provides an overview of the basic characteristics, missions, communications and organization of the Air and Space Forces.

### **AFS 102A Leadership Laboratory**

2 Hours (Same as AS102A at SIUC)

Prerequisites: Concurrent enrollment in AFS 102

Leadership Laboratory (LLAB) is a dynamic and integrated grouping of leadership developmental activities designed to meet the needs and expectations of prospective Department of the Air Force second lieutenants and complement the AFROTC academic program. It is a student planned, organized, and executed practicum conducted under the supervision of the Detachment Commander and Operations Flight Commander.

### **AFS 201 Team and Leadership Fundamentals, Part I**

1 Hour (Same as AS201 at SIUC)

Prerequisites: Concurrent enrollment in AFS 201A

Team and Leadership Fundamentals I. Part 1 of a 2-part course. This course provides a fundamental understanding of both leadership and team building. The lessons and course flow are designed to prepare students for field training and leadership positions in the detachment.

### **AFS 201A Leadership Laboratory**

2 Hours (Same as AS201A at SIUC)

Prerequisites: Concurrent enrollment in AFS201

Leadership Laboratory (LLAB) is a dynamic and integrated grouping of leadership developmental activities designed to meet the needs and expectations of prospective Department of the Air Force second lieutenants and complement the AFROTC academic program. It is a student planned, organized, and executed practicum conducted under the

supervision of the Detachment Commander and Operations Flight Commander.

**AFS 202 Team and Leadership Fundamentals, Part II**

1 Hour (Same as AS202 at SIUC)

Prerequisites: Concurrent enrollment in AFS 202A

Team and Leadership Fundamentals II. Part 2 of a 2-part course. This course provides a fundamental understanding of both leadership and team building. The lessons and course flow are designed to prepare students for field training and leadership positions in the detachment.

**AFS 202A Leadership Laboratory**

2 Hours (Same as AS202A at SIUC)

Prerequisites: Concurrent enrollment in AFS202

Leadership Laboratory (LLAB) is a dynamic and integrated grouping of leadership developmental activities designed to meet the needs and expectations of prospective Department of the Air Force second lieutenants and complement the AFROTC academic program. It is a student planned, organized, and executed practicum conducted under the supervision of the Detachment Commander and Operations Flight Commander.

## Allied Health (ALH)

### **ALH 101 Cardiopulmonary Resuscitation**

1 Hour

Prerequisites: None

1 hour weekly (1-0)

A basic course designed to prepare students in emergency cardiopulmonary care with emphasis on early signs of cardiopulmonary problems, immediate care of the cardiopulmonary victim, and methods of accessing the emergency medical system. Beginning first aid procedures are also discussed.

### **ALH 102 CPR Recertification**

.5 Hour

Prerequisites: CPR certification nearing expiration or expiration within the previous 6 months

8 hours total

A recertification course designed for those whose basic CPR card is nearing expiration or has expired within the previous six months. Early identification of cardiopulmonary distress, the immediate care for the victim, and methods of obtaining appropriate assistance for the victim will be stressed.

### **ALH 110 Issues in Health and Patient Care**

3 Hours

Prerequisites: None

3 hours weekly (3-0)

This course focuses on current legal and ethical issues in sonography and in health care delivery. An overview of sonography practice, present trends and associations will be discussed. Infection control, an analysis of death and dying and medical asepsis are

introduced. Care of the patient with emphasis placed on basic human needs, communication, physical assessment skills and patient positioning is introduced.

### **ALH 112 Pathophysiology and Terminology**

3 Hours

Prerequisites: BIO 206 with a grade of "C" or higher

3 hours weekly (3-0)

This course is designed to further the student's knowledge of pathophysiological disorders and basic terminology.

## American Sign Language (ASL)

### **ASL 141 American Sign Language (ASL I)**

4 Hours

Prerequisites: None

4 hours weekly (4-0)

This course is designed for students who have no knowledge of American Sign Language and for individuals with previous knowledge of sign language but not American Sign Language. A grade of "C" or higher must be achieved to advance to second-year classes.

### **ASL 142 American Sign Language (ASL II)**

4 Hours

Prerequisites: IPP 141 or equivalent

4 hours weekly (4-0)

This course is a continuation of American Sign Language I. It is designed to develop further communicative proficiencies at the intermediate level. Students will be writing transcription symbols, sentence types, time signs, pronominalization, subjects and objects, classifiers, locatives, pluralization, and temporal and distribution aspects for execution. Students will experience additional in-depth receptive and expressive proficiency development. Nonmanual aspects (grammar markers) will be featured and emphasized. Additional information about the deaf community/deaf world and its culture will be featured. A grade of "C" or higher must be achieved to advance to second-year classes.

### **ASL 143 American Sign Language (ASL III)**

5 Hours

Prerequisites: IPP 142

5 hours weekly (5-0)

This course is a continuation of American Sign Language II. It is designed to develop further communicative proficiencies at the beginning of the advanced level.

### **ASL 244 ASL IV – Survey of ASL Literature**

5 Hours

Prerequisites: IPP 143 and 211

5 hours weekly (5-0)

This course explores American Sign Language (ASL) literature, both in translations and in its own right. A well-rounded language program must explore literary works in the language of study. The students will study and explicate important literary works and video journalize their analysis. A grade of "C" or higher in IPP 141 and 142 must be achieved to advance to second-year classes.

## **Anthropology (ANT)**

### **ANT 111 Anthropology**

IAI – SI 900N

3 Hours

Prerequisites: None

3 hours weekly (3-0)

Anthropology 111 is an introduction to the study of evolution, human origins, archaeology and the development of human society in prehistory. The student will learn about the genetic, environmental, and cultural processes affecting human variation and adaptation. Students will also study the taxonomic classifications of past and present human and non-human primates, archaeological methods and dating techniques used to establish chronologies, the beginnings of human culture, the development of “stone age” societies, the peopling of the New World, and the formation of early cities.

### **ANT 202 America’s Diverse Cultures**

IAI – S1 904D

3 Hours

Prerequisites: None

3 hours weekly (3-0)

With over 300 spoken languages representing as many ethnicities and sub-groups within the political state of America, what does it mean to be an American? The political, military, and economic structures, along with their symbols, provide Americans with a large ideal of a national life. On-the-other-hand, the wide range of social practices express the variety of patterns people maintain to meet the contingencies of daily life. This course is designed to explore the diverse patterns of American life through an ethno-historical perspective and seek some answer to the

question of what it is to be American. To this end, we will understand more than ethnicities; we will examine gender, the concept of race, age, social class, assimilation and acculturation, social policy issues and social problems using historical and anthropological investigation and evidence.

### **ANT 216 Cultural Anthropology**

IAI – SI 901N

3 Hours

Prerequisites: None

3 hours weekly (3-0)

Cultural Anthropology is the comparative study of human culture and society. Students will examine problems central to the study of humanity and explore the nature of culture, society, language, kinship, marriage, social hierarchy, and other social creations (such as a person’s identity) through ethnographic accounts and anthropological theory. Thus the diverse ways in which humans have organized to meet the contingencies of daily life will provide a deeper understanding and respect for the different patterns of culture humans have created.

### **ANT 240 Introduction: Physical Anthropology**

IAI – S1 902

3 Hours

Prerequisites: None

3 hours weekly (3-0)

Physical Anthropology (also called Biological or Evolutionary Anthropology) is an introduction to humans as a biological species through time and geography. The course applies the scientific method to explore the beginnings of hominids, the origins of humans, and our relationship to our closest primate relatives. The human fossil record, genetics, evolutionary

theory, primate behavior and evolution, and similarities and differences in modern humans, including blood groups, skin color, and disease susceptibility are major topics of study to better understand our place in the web of life as a biological organism.



## **Applied Technologies Internship (ATI)**

### **ATI 200 Applied Technologies Internship**

1-3 Hours

Prerequisites: Completed 12 credit hours and consent of department chair

80-240 hours during semester

The internship is on-the-job work experience that will enable the student to apply skills and knowledge acquired in the classroom to real work experiences. It is a cooperative venture involving the student, the college, and training station (employer). The internship will be closely planned and supervised by the College coordinator, so the student will obtain the student's course of study and level of development. Internship students work in a variety of applied technologies programs.

## **Army Military Science (AMS)**

### **AMS 101 Introduction to Military Science**

1-2 Hours (Same as AMS101 at SIUC)

Prerequisites: None

Variable hours weekly depending on course credit

Introduction to basic military science focusing on leadership skills and individual tasks. This introductory course will provide the student with realistic experience in leadership and hands-on experience with a variety of army equipment. This course offers a leadership laboratory.

### **AMS 102 Introduction to Military Science II**

1-2 Hours (Same as AMS102 at SIUC)

Prerequisites: None

Variable hours weekly depending on course credit

Expanded introduction to basic military skills focusing on squad level tactics, written orders, security, first aid, and drill and ceremony. Realistic experiences that challenge the students' ability to apply their leadership with doctrinal guidelines. This course offers a leadership laboratory.

### **AMS 201 Basic Leadership Skills**

3 Hours (Same as AMS201 at SIUC)

Prerequisites: None

3 hours weekly (3-0)

Applied leadership in a small group context. Exercises in self-confidence, group communications, and leadership evolved from situations where the group is required to function and survive on a self-sufficient basis. Principles of survival and cooperative effort will be explored in depth, with maximum

involvement of the student in leadership and problem-solving roles. Includes leadership lab.

### **AMS 202 Leadership Studies and Teamwork**

3 Hours (Same as AMS202 at SIUC)

Prerequisites: None

3 hours weekly (3-0)

A study of the Military Management System, including the functional aspects of leadership within the military structure. Includes the presentation of military leadership traits, styles, approaches, managerial techniques, and communications. Includes a leadership laboratory.

## Art (ART)

### **ART 101 Two-Dimensional Design**

IAI – ART 907

3 Hours

Prerequisites: None

6 hours weekly (0-6)

This is a fundamental design course dealing with concepts and materials that can be applied to any two-dimensional work. Emphasis is placed on problem solving, developing perceptual skills, and critical judgment. This studio course explores fundamentals of formal systems and basic elements of visual organization. Basic health and safety issues will be taught relative to the materials used.

### **ART 102 Three-Dimensional Design**

IAI – ART 908

3 Hours

Prerequisites: None

6 hours weekly (0-6)

Introduction to the basic elements of three-dimensional design; those ideas and concepts that concern themselves with structure and spatial organization used in investigating and solving basic sculptural problems/three-dimensional problems. Various materials will be used. Basic health and safety issues will be taught relative to the materials used.

### **ART 111 Art Appreciation**

IAI – F2 900

3 Hours

Prerequisites: None

3 hours weekly (3-0)

This course attempts to develop interest, aptitude, and understanding through visual, verbal, and actual experience with media. A basis for approaching visual arts is also included. Emphasis is on exposure to the visual arts.

*This course is also offered as part of a study abroad program. Contact the International Education Coordinator for more information.*

### **ART 165 Fibers I**

3 Hours

Prerequisites: None

6 hours weekly (0-6)

This is an introduction to fibers as an art form, emphasizing esthetic and technical development using existing fiber surfaces and/or fabricated surfaces. Basic health and safety issues will be taught relative to the materials used.

### **ART 180 Drawing I**

IAI – ART 904

3 Hours

Prerequisites: None

6 hours weekly (0-6)

A basic course stressing understanding of visual perception, drawing media and drawing skills. Emphasis is placed on attaining a basic level of drawing skill, using a variety of media, solving problems in a creative and original manner, and learning how three-dimensional objects can be

rendered on the flat surface. Course includes vocabulary development, critical analysis activities, and reference to historic models of drawing. Basic health and safety issues will be taught relative to the materials used.

### **ART 205 Graphic Design**

3 Hours

Prerequisites: ART 101 or consent of instructor

6 hours weekly (0-6)

An introduction to the theoretical and practical aspects of visual communication, including techniques, processes, terminology, and basic compositional and conceptual skills of graphic design. Emphasis will be placed on design problems that will develop perceptual skills and critical judgment.

### **ART 220 History of Art I**

IAI – F2 901

3 Hours

Prerequisites: None

3 hours weekly (3-0)

This course is the first part of a three-semester survey of Western and non-Western art from prehistory to the present. The origins and nature of art in a variety of ancient civilizations from around the world, such as Ancient Mesopotamia, Egypt, Greece, China, India and the Americas will be studied. Sculptures, painting, architecture, metalwork, ceramics, textiles and other art works are studied in their social and historical contexts, with consideration of issues of style, subject matter, meaning technique and aesthetics.

### **ART 221 History of Art II**

IAI – F2 902

3 Hours

Prerequisites: None

3 hours weekly (3-0)

This course is the second part of a three-semester survey of Western and non-Western art from prehistory to the present. Art from Ancient Rome to Early Renaissance in Europe, Africa and Asia will be studied. Sculptures, painting, architecture, metalwork, ceramics, textiles and other art works are studied in their social and historical contexts, with consideration of issues of style, subject matter, meaning technique and aesthetics.

### **ART 222I History of Modern Art**

3 Hours

Prerequisites: Students enrolled in a study abroad program. (Contact the International Education Coordinator for more information.)

3 hours weekly (3-0)

This course examines Modern Art in historical perspective. We will trace its roots in 19th century individualism and the Impressionists' discovery of modern life and then follow the major movements and artists of the 20th century. Since the course is taught in the context of a European Studies Program, it will emphasize the European development and discuss American contributions, especially in the second half of the century, on a comparative basis.

### **ART 223 History of Art III**

3 Hours

Prerequisite: None

3 hours weekly (3-0)

This course is the third part of a three-semester survey of Western and non-Western art from prehistory to the present. The focus will be on art produced from the 19th century to the 21st. Sculptures, painting, architecture, metalwork, ceramics, textiles and other art works are studied in their social and historical contexts, with consideration of issues of style, subject matter, meaning technique and aesthetics.

### **ART 250 Ceramics I**

3 Hours

Prerequisites: None

6 hours weekly (0-6)

This is an introduction to fine arts ceramics. Handbuilding processes—pinching, slab construction, and coil building—will predominate with some opportunity for beginning wheel throwing. Projects will include both vessel making and sculpture. Students will gain familiarity with clay, slips, glazes, and simple firing techniques. In addition they will be introduced to the scope of historical and contemporary ceramic art. Basic health and safety issues will be taught relative to the materials used.

### **ART 255 Life Drawing**

3 Hours

Prerequisites: ART 180 or consent of instructor

6 hours weekly (0-6)

This is an introduction to basic concepts and procedures as experienced through a variety of drawing media that function as graphic expression. Basic information and practice in

drawing the human figure and related concerns constitute the substance of this course. Basic health and safety issues will be taught relative to the materials used.

### **ART 256 Drawing II**

IAI – ART 905

3 Hours

Prerequisites: ART 180 or consent of instructor

6 hours weekly (0-6)

This course provides the opportunity to extend knowledge and practice in drawing still life, landscape, human figure, and perspective while gaining increased control of assorted drawing media. It gives the student opportunity for additional development beyond beginning drawing and life drawing. A minimum of 120 hours of studio work is required. Basic health and safety issues will be taught relative to the materials used.

### **ART 260 Beginning Painting**

3 Hours

Prerequisites: ART 101 or 180 or consent of instructor

6 hours weekly (0-6)

Concepts, procedures, and material are all important for the painting discipline. This course provides an opportunity to work in several different painting media. Basic information about varied paints, painting materials, and practices are part of the format. Basic health and safety issues will be taught relative to the materials used.

*This course is also offered as part of a study abroad program. Contact the International Education Coordinator for more information.*

**ART 290 Computer Art I**

3 Hours

Prerequisites: None

4 hours weekly (2-2)

This course is an introduction to computer applications in the visual arts. Students will utilize computer equipment and software in approaching visual image manipulation and generation, including the integration of computer hardware, software and peripheral equipment to create and combine traditional and contemporary visualizations with art and design. Issues of personal health and safety relative to this process are thoroughly discussed and practiced.

**ART 291 History of Photography**

IAI – F2 904

3 Hours

Prerequisites: None

3 hours weekly (3-0)

This course is about the historical development of photography as an art form from 1839 to the present, including critical analysis of types of photographs and aesthetic movements in photography. A close look at those considered established masters and others will be studied and critiqued for composition, their aesthetic and humanistic values, emphasizing photographs as expressions of the ideas and beliefs of photographers within their cultural and social content.

**ART 292 Computer Art II**

3 Hours

Prerequisites: ART 290

4 hours weekly (2-2)

This course continues building esthetic and technical skills begun in the introductory level course and refines those skills. Students will utilize computer equipment and professional digital imaging software, a printer and media storage devices to complete imaging projects. Foundation techniques will include proper layout, design, resolution, printing, and techniques critical to computer art. This course will enable students to better understand the power of this art form.

**ART 293 Art Preparation and Portfolio**

1 Hour

Prerequisites: ART 101, ART 102, ART 180 or an Art Elective

2 hours weekly (0-2)

This course will prepare art and art education students with skills and materials they will need to apply to BA and BFA programs. It will also teach advanced skills for preparing canvases for painting.

**ART 296 Photography I**

3 Hours

Prerequisites: None

4 hours weekly (2-2)

An introductory course covering the basic principles of digital photography as an art medium, including equipment selection and use, image processing, and relevant aesthetic, historic, cultural, and critical issues. Students

will receive instruction on a variety of photographic subjects and will participate in photographic assignments and critiques.

*This course is also offered as part of a study abroad program. Contact the International Education Coordinator for more information.*

### **ART 297 Photography II**

3 Hours

Prerequisites: ART 296

4 hours weekly (2-2)

Photography II is a production art class that requires making and editing images on a DSLR with manual exposure capable settings during time outside of the classroom. The instructor will give specific photography assignments related to the chapters in the text. The class will also participate in a month-long project documenting communities in southern Illinois. Time management and self-discipline are crucial to be successful in the course. The student will be able to express themselves freely in the photographic medium and will be critiqued by the instructor and class on how he or she can improve technically and artistically. The student will expand their ability to explain the composition, context and meaning of their personal work. There will be additional self-assigned projects throughout the semester. This course will also explore how photography has shaped culture, art and public opinion throughout the history of the medium.

### **ART 299I Studio Art: Printmaking**

3 Hours

Prerequisites: Beginning Drawing. Students enrolled in a study abroad program. (Contact the International Education Coordinator for more information.)

5 hours weekly (1-4)

The course is designed as an introduction to the major techniques of printmaking. In addition, several workshops will introduce students to Salzburg artists. Students with a previous background in printmaking may work in an area/technique of their choice and develop their own project(s) for the semester. Students are encouraged to keep a sketchbook throughout the semester as a collection and resource of visual ideas.

## Associate Degree Nursing (ADN)

### ADN 100 ADN Orientation

.5 Hours

Prerequisites: Admission to ADN program

.5 hours weekly (.5-0)

This course will introduce students to the ADN program entry requirements for classroom, labs, and clinicals.

### ADN 201 Health Assessment and Nursing Care

4 Hours

Prerequisites: BIO 205, 206, and acceptance into the Associate Degree Nursing Program

5 hours weekly (3-2)

This course introduces the student to the concepts that are the foundation of the nursing curriculum. Emphasis is placed on the study of basic human needs and the components of the nursing process. Physical assessment skills will be reviewed utilizing a systems approach. Other topics that will be covered include venipuncture and IV therapy, methods of documentation, and principles of good interpersonal communication.

### ADN 202 Nursing Care of the Adult I

7 Hours

Prerequisites: Acceptance in the Associate Degree

Nursing Program and concurrent enrollment in ADN 201

10 hours weekly (4-6)

This course introduces concepts related to nursing care of adult and geriatric individuals experiencing acute and chronic alterations in health. Emphasis is placed on utilizing the nursing process as a framework for providing

and managing care to individuals along the wellness-illness continuum. Upon completion, students should be able to apply the nursing process to individuals experiencing acute and chronic alterations in their cardiovascular, respiratory, and neurological systems. Nursing roles, psychosocial needs of the client and family, teaching/learning principles, legal/ethical implications of care, and related health trends and issues are integrated through the class.

### 6ADN 202S ADN Supplemental Instruction I

1 Hour

Prerequisites: Concurrent enrollment in ADN 202

2 hours weekly (0-2)

This course is designed to provide both individual and group supplemental instruction to complement the theory and clinical portions of the nursing course, ADN 202 Nursing Care of the Adult I. The purpose is to provide the student with necessary knowledge and skills to pass the national nursing exam (NCLEX-RN) and to be a safe beginning nurse practitioner. This course focuses on beginning critical thinking skills related to prioritizing nursing care and decision-making skills regarding nursing interventions for case studies of patients experiencing neurological, cardiovascular, and respiratory disorders.

*This is a skill building course and is not used to calculate GPA at John A. Logan College. In addition, it will not transfer.*



### **ADN 203 Intro to Conceptual Framework**

3 Hours

Prerequisites: Acceptance into the Hybrid Online AAS in Nursing program. Unencumbered active Illinois LPN license.

3.5 hours weekly (2.5-1)

This course is designed to further the student's knowledge of the concepts that are foundational to the nursing curriculum, including assessment, pharmacological administration and intravenous therapy skills. Emphasis is placed on problem solving through application of the nursing process as well as understanding of pharmacological agents associated with disorders commonly encountered in nursing practice. Learning opportunities include both theory content and selected nursing lab experiences.

### **ADN 205 Respiratory Nursing Interventions**

3 Hours

Prerequisites: Acceptance into the Hybrid Online AAS in Nursing program. Unencumbered active Illinois LPN license.

4 hours weekly (2-2)

This course is designed to further the student's knowledge in respiratory function and those associated disorders commonly encountered in nursing practice.

### **ADN 206 Cardiovascular Nursing Interventions**

3 Hours

Prerequisites: Acceptance into the Hybrid Online AAS in Nursing program. Unencumbered active Illinois LPN license.

4 hours weekly (2-2)

This course is designed to further the student's knowledge in cardiovascular function and those

associated disorders commonly encountered in nursing practice.

### **ADN 207 MTBLC/ENDCRNE Nursing Interventions**

3 Hours

Prerequisites: Acceptance into the Hybrid Online AAS in Nursing program. Unencumbered active Illinois LPN license.

4 hours weekly (2-2)

This course is designed to further the student's knowledge in metabolic-endocrine function and those associated disorders commonly encountered in nursing practice.

### **ADN 210 GI/GU Nursing Interventions**

3 Hours

Prerequisites: Acceptance into the Hybrid Online AAS in Nursing program. Unencumbered active Illinois LPN license. ADN 203 with a grade of "C" or higher.

4 hours weekly (2-2)

This course is designed to further the student's knowledge in gastrointestinal/genitourinary function and those associated disorders commonly encountered in nursing practice.

### **ADN 212 Psychiatric Nursing Interventions**

2 Hours

Prerequisites: Acceptance into the Hybrid Online AAS in Nursing program. Unencumbered active Illinois LPN license. ADN 203 with a grade of "C" or higher.

3 hours weekly (1-2)

This course is designed to further the student's knowledge in psychiatric function and those associated disorders commonly encountered in nursing practice.

**ADN 213 Nursing Today and Tomorrow**

2 Hours

Prerequisites: ADN 201

3 hours weekly (1-2)

Leadership in nursing, transition into the new graduate role, and current issues in nursing are the integral components of this course. In addition, the National Patient Safety Goals will be analyzed and discussed. Global, national and local community health trends will be investigated. Ethical topics/dilemmas will have both a clinical and discussion format.

**ADN 218 Mental Health Issues in Nursing**

3 Hours

Prerequisites: ADN 201

4 hours weekly (2-2)

This course includes concepts related to the nursing care of individuals experiencing alterations in social and psychological functioning. Emphasis is placed on utilizing the nursing process to provide and manage nursing care for individuals with common psychiatric disorders or mental health needs. Nursing roles, psychosocial needs of the client, and family teaching/learning principles, legal/ethical implications of care, commonly used medications, and related health trends and issues are integrated throughout the course. Upon completion, students should be able to apply psychosocial theories in the nursing care of individuals with psychiatric/mental health needs.

**ADN 220 Nursing Care of the Adult II**

7 Hours

Prerequisites: ADN 201, 202

10 hours weekly (4-6)

This course provides expanded concepts related to nursing care for individuals experiencing complex alterations in health. Emphasis is placed on the nurse's role as a member of a multidisciplinary team and as a manager of care for a group of individuals. Care for patients with alterations in GI-GU metabolic/ endocrine, orthopedics, and skin function will be addressed. Nursing roles, psychosocial needs of the client and family, legal/ethical implications of care, teaching/learning principles, and related health trends and issues are integrated throughout the class.

**ADN 220S Supplemental Instruction I**

1 Hour

Prerequisites: Previous or concurrent enrollment in ADN 220 Nursing Care of the Adult II

2 hours weekly (0-2)

This course is designed to provide both individual and group supplemental instruction to complement the theory and clinical portions of the nursing course, ADN 220 Nursing Care of the Adult II. The purpose is to provide the student with necessary knowledge and skills to pass the national nursing exam (NCLEX-RN) and to be a safe beginning nurse practitioner.

**ADN 221 Family Nursing**

5 Hours

Prerequisites: ADN 201, 202

7 hours weekly (3-4)

This course includes nursing concepts related to the delivery of nursing care for the expanding family. Emphasis is placed on utilizing the nursing process as a framework for managing/providing nursing care to individuals and families along the wellness-illness continuum. Upon completion, students should be able to utilize the nursing process to deliver

nursing care to mothers, infants, children, and families. The role of the associate degree nurse as a provider of care is emphasized, integrating the concepts of caring, health care trends, cultural diversity, nutrition, pharmacology, and teaching/learning principles.

### **ADN 223 Pediatric Nursing Interventions**

2 Hours

Prerequisites: Acceptance into the Hybrid Online AAS in Nursing program. Unencumbered active Illinois LPN license. ADN 203 with a grade of "C" or higher.

3 hours weekly (1-2)

This course is designed to further the student's knowledge in pediatric interventions and those associated disorders commonly encountered in nursing practice.

### **ADN 224 Obstetrical Nursing Interventions**

2 Hours

Prerequisites: Acceptance into the Hybrid Online AAS in Nursing program. Unencumbered active Illinois LPN license. ADN 203 with a grade of "C" or higher.

3 hours weekly (1-2)

This course is designed to further the student's knowledge in obstetrical nursing interventions and those associated disorders commonly encountered in nursing practice.

### **ADN 225 Ortho/Derm Nursing Interventions**

3 Hours

Prerequisites: Acceptance into the Hybrid Online AAS in Nursing program. Unencumbered active Illinois LPN license. ADN 203 with a grade of "C" or higher.

4 hours weekly (2-2)

This course is designed to further the student's knowledge in orthopedic/dermatological function and those associated disorders commonly encountered in nursing practice.

### **ADN 226 Neuro/Sensory Nursing Interventions**

3 Hours

Prerequisites: Acceptance into the Hybrid Online AAS in Nursing program. Unencumbered active Illinois LPN license. ADN 203 with a grade of "C" or higher.

4 hours weekly (2-2)

This course is designed to further the student's knowledge in neurological/sensory function and those associated disorders commonly encountered in nursing practice.

### **ADN 228 Nursing Leadership Today & Tomorrow**

3 Hours

Prerequisites: Acceptance into the Hybrid Online AAS in Nursing program. Unencumbered active Illinois LPN license. ADN 203 with a grade of "C" or higher.

3 hours weekly (2.5-1)

Leadership in nursing, transition into the new graduate role, and current issues in nursing are the integral components of this course. In addition, the National Patient Safety Goals will be analyzed and discussed. Global, national and local community health trends will be investigated. Ethical topics/dilemmas will have both a clinical and discussion format.

### **ADN 230 Advanced Pharmacology I**

1.5 Hours

Prerequisites: PNE 161, PNE 171

2 hours weekly (1-1)

Pharmacologic therapy plays an important role in the treatment of patients experiencing health problems. This course is designed to provide the student with further depth of study into the drugs used in treating patients experiencing cardiovascular, respiratory, neurological and psychiatric problems. Emphasis will be placed on pharmacological classifications, major drugs under each classification, physiologic mechanism of action, usual dosages, routes of administration, expected therapeutic effect, specific nursing considerations, side effects, adverse/toxic effects and patient education.

### **ADN 231 Advanced Pharmacology II**

1.5 Hours

Prerequisites: ADN 230

2 hours weekly (1-1)

Pharmacologic therapy plays an important role in the treatment of patients experiencing health problems. This course is designed to provide the student with further depth of study into the drugs used in treating patients experiencing health problems. Emphasis will be placed on pharmacological classifications, major drugs under each classification, physiologic mechanism of action, usual dosages, routes of administration, expected therapeutic effect, specific nursing considerations, side effects, adverse/toxic effects and patient education.

## **Automotive Collision Technology (ACT)**

### **ACT 190 Auto Body Repair I**

2 Hours

Prerequisites: None

2 hours weekly (2-0)

A study of the basics of minor dent and rust repair, using fiberglass polyester, two-agent chemically activated fillers, dent puller, and shaping tools. Plastic identification and flex panel repair are included.

### **ACT 191 Metal Finishing and Painting**

2 Hours

Prerequisites: None

2 hours weekly (2-0)

A study in the use of abrasives and solvent type paint preparations, application of lacquer, enamel and water base types of paint, and automotive cleanup and buffing equipment.

### **ACT 192 Frame and Body Alignment**

2 Hours

Prerequisites: ACT 190, 191, 196

2 hours weekly (2-0)

This course teaches how to analyze and correct one or more damaged automobile sections in order to accomplish a perfect profile and to correct damage in stretching or shrinking of the metal. Studies of heavy auto damage and the use of porto-powers, frame straightening machines and gauging and alignment tools, as well as alignment of door, hood, and deck lid, and replacement of detachable parts are also included. A major emphasis is placed on unitized body repair.

### **ACT 193 Advanced Auto Body Repair**

1 Hour

Prerequisites: ACT 190, 191, 196

1 hour weekly (1-0)

A study in the use of abrasives and solvent type paint preparations, applications of lacquer, and enamel types of paint. Interior and accent application, custom painting and fiberglass finishings, and use of water base and baked-on finishes are emphasized.

### **ACT 194 Body Shop Management**

1 Hour

Prerequisites: ACT 190, 191, 196

1 hour weekly (1-0)

A study of body shop management, time management, space, tools, employees, insurance, safety, and estimate writing will be covered.

### **ACT 196 Auto Body Lab**

5 Hours

Prerequisites: Concurrent enrollment in ACT 190, 191

15 hours weekly (0-15)

This lab will enable students to practice the topics covered in ACT 190 and ACT 191 with the basic application of auto repair filler, patches, and paints. The student will also use buffers, solvents, and chemicals appropriate for new and used car cleanup.

**ACT 197 Auto Body Repair and Paint Lab II**

5 Hours

Prerequisites: Concurrent enrollment in ACT 192, 193, 194

15 hours weekly (0-15)

This lab will enable students to practice the topics covered in ACT 192, 193, and 194 with the basic application of auto repair filler, patches, and paints. The uses of frame straightening, gauging, and major panel replacement are strongly stressed.

**ACT 273 Chassis Electrical**

3 Hours

Prerequisites: None

3 hours weekly (3-0)

A study of the electrical accessories of automobiles such as power windows, power seats, directional signals, and all other wiring. Diagnosis, repair, and troubleshooting are stressed. Theory is supplemented by laboratory work in ACT 197.

**ACT 291 Mechanical Systems for Collision Technology**

2 Hours

Prerequisites: None

2 hours weekly (2-0)

A study in basic cooling systems, drive train, fuel delivery, and exhaust systems. The identification, replacement, and testing of these areas as services in collision repair.

**ACT 293 Structural Damage Repair**

1 Hour

Prerequisites: None

1 hour weekly (1-0)

A study of the repair procedure used in structural damage repair, including replacement of panels, sectioning, and straightening methods. This course will include ASE- and ICAR-approved repairs.

**ACT 294 Plastics and Adhesives**

2 Hours

Prerequisites: None

4 hours weekly (1-3)

A study in the identification and preparation of plastics and flexible parts for repair. The repair including patching, bonding, shaping, and welding of panels and parts.

**ACT 296 Structural Damage Repair Lab**

4 Hours

Prerequisites: Concurrent enrollment in ACT 293

12 hours weekly (0-12)

This course teaches how to analyze and correct major collision damage to return the vehicle to the original dimension and strength. Major emphasis is placed on unitized sections and straightening procedures.

## **Automotive Services Technology (AST)**

### **AST 100 Automotive Orientation and Safety**

2 Hours

Prerequisites: None

2 hours weekly (2-0)

This course is designed to introduce the automotive or auto collision student to the many career opportunities. The course allows the student an opportunity to ask questions about jobs in the industry. The course covers the safety needed to know for automotive and auto collision service work. This course will also cover some of the history of the automotive industry.

### **AST 101 Automotive Maintenance and Light Repair**

3 Hours

Concurrent Enrollment: AST 100

4 hours weekly (2-2)

A study of the basic servicing techniques required for automotive maintenance and light repair. With emphasis on automotive systems, hand tools and shop equipment, diagnostic tools and shop equipment, and preventive maintenance.

### **AST 170 Engine Repair**

3 Hours

Prerequisites: AST 100 & AST 101

4 hours weekly (2-2)

This course is an introduction for the student into the Internal Combustion Engine (I.C.E.). This course will concentrate on engine construction, diagnosis, diagnosis, disassembly, inspection, and reassembly.

### **AST 171 Engine Performance I**

3 Hours

Prerequisites: AST 100, 101, 170, 180, 190 or instructor permission

4 hours weekly (2-2)

This class introduces students into what systems technician's service on a regular basis. It is an introduction into the service of the engine performance systems.

### **AST 180 Electrical I**

3 Hours

Prerequisites: AST 100, AST 101 or instructor permission

4 hours weekly (2-2)

This course is a study of the principles of electricity and general electrical system diagnosis as it pertains to the 12-volt system used in automotive systems. This course will cover batteries, series, parallel circuits, wiring diagrams, and other electrical principles.

### **AST 183 Braking, Steering, and Suspension I**

3 Hours

Prerequisites: AST 100, 101, 180 or instructor permission

4 hours weekly (2-2)

This class will introduce the student into the brake, steering and suspension systems used in the automotive industry. This class will cover brake system fundamentals and brake safety, principles of brake operation, base brake components, along with tires, wheels, wheel bearings, suspension systems, and basic steering components.

**AST 190 Electrical II**

3 Hours

Prerequisites: AST 100, 101, 180 or instructor permission

4 hours weekly (2-2)

A study of the diagnosis and service of starting systems, charging systems, lighting circuits, accessories, and passive restraint and vehicle safety systems.

**AST 191 Automotive Service Lab I**

4 Hours

Prerequisites: AST 100, 101, 170, 171, 180, 183, 190 or instructor permission

8 hours weekly (0-8)

This course will give the student a chance to participate in a live working automotive shop. Students will be working as service writers, service technicians, quick lube specialist, parts/tool room tech, and acting service manager. Students will participate in all jobs associated with a service shop as an entry level technician, throughout this 4 day a week 16-week class students will be better prepared to work in a shop environment after graduation.

**AST 201 Hybrid/EV History and Safety**

2 Hours

Prerequisites: AST 100, 101, 180, 190 or instructor permission or 2 years of work experience as a certified technician.

2 hours weekly (2-0)

This course is an online only class that is required for the spring EV/Hybrid Class. This course will be the study of electric and hybrid vehicle history and safety. In this course the student will learn about the long history of electric vehicles, along with the safety requirements needed to service these vehicles

safety. This is needed course before taking the EV/Hybrid class in the spring semester.

**AST 202 Hybrid/EV Diagnostic and Service**

3 Hours

Prerequisites: AST 100, 101, 171, 180, 183, 190, 201 or instructor permission or 2 years of work experience as a certified technician.

4 hours weekly (2-2)

This course is an online only class that is required for the spring EV/Hybrid Class. This course will be the study of electric and hybrid vehicle history and safety. In this course the student will learn about the long history of electric vehicles, along with the safety requirements needed to service these vehicles safety. This is needed course before taking the EV/Hybrid class in the spring semester.

**AST 261 Engine Performance II**

3 Hours

Prerequisites: AST 100, 101, 170, 171 180, 190 or instructor permission

4 hours weekly (2-2)

This class introduces students into what systems technician's service on a regular basis. It is an introduction into the service of the engine performance systems. With an emphasis on the fuel system, electronic fuel injection, ignition systems, and the emission control systems.

**AST 282 Automotive HVAC**

3 Hours

Prerequisites: AST 100, 101, 180, 190 or instructor permission

4 hours weekly (2-2)

This course is a study of automotive air conditioning and climate control systems.



### **AST 283 Brakes, Steering and Suspension II**

3 Hours

Prerequisites: AST 100, 101, 180, 183, 190 or instructor permission

4 hours weekly (2-2)

This class will expand on the previous brakes and steering systems from the AST 183 class. With specifics in the power brake, electronic brake, four-wheel alignments, and other steering and suspension systems.

### **AST 290 Drivetrain Basics**

3 Hours

Prerequisites: AST 100, 101, 180, 190 or instructor permission

4 hours weekly (2-2)

A study of the diagnosis and repair of clutches, manual transmissions, manual transaxles, differentials, and introduction into automatic transmissions. Drive shafts, CV joints, front-wheel drive, and four-wheel drive components are also covered.

### **AST 291 Automotive Service Lab II**

4 Hours

Prerequisites: AST 100, 101, 170, 171, 180, 183, 190, 191, 261, 282, 283 or instructor permission

8 hours weekly (0-8)

This course will give the student a chance to participate in a live working automotive shop. Students will be working as service writers, service technicians, quick lube specialist, parts/tool room tech, and acting service manager. Students will participate in all jobs associated with a service shop, throughout this 4 day a week 16-week class students will be better prepared to work in a shop environment after graduation.

### **AST 292 Automotive Service Lab III**

4 Hours

Prerequisites: AST 100, 101, 170, 171, 180, 183, 190, 191, 201, 202, 261, 282, 283, 290, 291 or instructor permission

8 hours weekly (0-8)

This course will give the student a chance to participate in a live working automotive shop. Students will be working as service writers, service technicians, quick lube specialist, parts/tool room tech, and acting service manager. Students will participate in all jobs associated with a service shop as an entry level technician, throughout this 4 day a week 16-week class students will be better prepared to work in a shop environment after graduation.

## Biology (BIO)

### **BIO 100 Biology for Non-Science Majors**

IAI – LI 900L

4 Hours

Prerequisites: None

5 hours weekly (3-2)

A course designed specifically for the non-science major student. The course provides laboratory experience and lecture concepts that help the non-science major student understand the foundations of biology. Emphasis is placed on the application of this knowledge to human concerns and endeavors. Topics to be covered include but are not limited to: process of science, biochemistry, cell science, metabolism, genetics, molecular biology, biotechnology, evolution, structure and function, and ecology.

### **BIO 101 Biological Science for Science Majors I**

IAI – L1 910L, IAI – BIO 910

4 Hours

Prerequisites: None

5 hours weekly (3-2)

This course is designed for science majors. It is a lecture-lab course which includes the following: an introduction to biochemistry, molecular genetics, cell structure, function, and processes. The scientific method is presented in lab.

### **BIO 102 Biological Sciences II**

IAI – L1 910L, IAI – BIO 910

4 Hours

Prerequisites: None

5 hours weekly (3-2)

Organismal biology, ecology, and evolution. An introduction to structure and function of major groups of microorganisms, fungi, animals, and plants. Emphasis on evolutionary relationships and ecological principles. Laboratory required.

### **BIO 105 Humans in Society**

IAI – L1 904L

4 Hours

Prerequisites: None

5 hours weekly (3-2)

This course provides a wide variety of general biological concepts such as scientific process, cellular and molecular biology, human genetics and heredity, human impact on society, ecology, evolution, anatomy and physiology as it relates to humans. The course includes laboratory activities and lecture concepts suited for a beginning course into the functioning human body and its impact in the natural community. Embedded throughout the course, there will be an emphasis on developing scientific process skills.

### **BIO 205 Human Anatomy and Physiology I**

4 Hours

Prerequisites: None

5 hours weekly (3-2)

A study of the structure, functions, and homeostatic mechanisms of the normal human body. Subjects covered include: fundamentals of the chemical basis of life; cell structure and physiology; tissues; integumentary, skeletal, muscular, central and autonomic nervous systems; and special senses. The laboratory includes dissection of a cat, small mammal, mammalian eye, and appropriate physiological experiments.

## **BIO 206 Human Anatomy and Physiology II**

4 Hours

Prerequisites: None

5 hours weekly (3-2)

A study of the structure, function, and homeostatic mechanisms of the endocrine, circulatory, lymphatic, respiratory, digestive, urinary, and reproductive systems; defense mechanisms of the body; pregnancy; embryonic development; and inheritance. The laboratory includes dissection of cat and large mammal heart and appropriate physiological experiments.

## **BIO 225 Genetics**

IAI – L1 906

3 Hours

Prerequisites: None

3 hours weekly (3-0)

This course examines gene structure and function. Cytogenetics, transmission genetics, molecular genetics and population genetics are explored during the semester. Special attention is given to applications of gene technology and the impact of genetic knowledge and technology on humanity.

## **BIO 226 General Microbiology**

4 Hours

Prerequisites: None

6 hours weekly (2-4)

An introduction to the study of microorganisms, including their morphology, physiology, cultivation, classification, pathogenicity, economic importance, control, and immunity. Laboratory experiments guide students in development of laboratory procedures, sterile techniques, and data interpretation.

## **Business (BUS)**

### **BUS 110 Introduction to Business**

3 Hours

Prerequisites: None

3 hours weekly (3-0)

Introduction to business functions, operations, and organization. Includes ownership and management, forms of organizations, finance, business ethics, personnel and labor-management relations, and marketing.

### **BUS 111 Business Mathematics**

3 Hours

Prerequisites: None

3 hours weekly (3-0)

A mathematics course designed to prepare the student to enter the business world and successfully apply math principles to everyday business problems. After a brief review of basic math, some of the topics covered are percentages, discounts, interest, discounting notes, depreciation, inventory, commissions, bank statements, account sales and account purchases, basic statistics, markup-markdown, distribution of profits, and overhead expenses. Good basic math skills are highly recommended.

### **BUS 115 Basic Keyboarding**

1 Hour

Prerequisites: None

2 hours weekly (0-2)

This course is an introduction to the computer keyboard. The primary goal is mastery of the keyboard demonstrated by the touch operation of the alphanumeric keyboard and symbols. The touch method for ten-keypad will be

introduced. The course is designed to be completed in 7½ weeks.

### **BUS 116 Keyboarding I**

3 Hours

Prerequisites: None

5 hours weekly (1-4)

Mastery of the keyboard with speed and accuracy in the touch operation of the keyboard is the major goal of this course. Skill is developed for vocational and personal uses. Business office standards are used in keyboarding basic letter styles, reports, and tables. The following grade scale is used for speed on 3-minute timings on straight copy; A=40 wpm; B=36-39 wpm; C=32-35 wpm.

### **BUS 117 Keyboarding II**

3 Hours

Prerequisites: BUS 116 or consent of department chair

5 hours weekly (1-4)

Further development of speed and accuracy in both production and straight copy keyboarding. Further study of business letters, special business communication forms and styles, reports, tables, and a mastery of keyboarding digits. The following grade scale is used for speed for 3-minute timings on straight copy: A=58 wpm; B=54 wpm; C=50 wpm.

### **BUS 121 Business Statistics**

IAI – BUS 901

3 Hours

Prerequisites: MAT 108 with Minimum Grade of : C

3 hours weekly (3-0)

Introduction to statistical analysis of business and economic data and how it aids in controlling operations and in making sound business decisions. Includes descriptive measures of populations and samples, central tendency, probability and probability distributions, interval estimation, hypothesis testing, linear regression and analysis, chi-square analysis, and analysis of variance.

### **BUS 135 Office Language Skills**

3 Hours

Prerequisites: None

3 hours (3-0)

This course is designed to review language skills and to improve the use of the following: proofreading skills, spelling, punctuation, other grammatical skills, including the proper use of capital letters, abbreviations, number styles, word division, and the use of appropriate word choice.

### **BUS 151 (A-C) School-to-Work Transition Development**

1 Hour

Prerequisites: None

5 hours weekly (0-5)

The broad objective is to meet the students' needs that are not covered in regular classes. Specific objectives and other elements in the syllabus will be developed when the course is offered. Application of workplace readiness

skills to specific problems through observation, simulation, special class projects, or problem-solving procedures. (Topic to be listed on the student's permanent academic record.)

### **BUS 222 Legal/Social Environment of Business**

3 Hours

Prerequisites: None

3 hours weekly (3-0)

A study of the legal and social environment of business, with emphasis on business ethics and corporate social responsibility. Areas of concentration include the legal system and government regulation of business, formation of contracts, securities law, consumer protection law, and labor and employment.

### **BUS 235 Business Communication**

3 Hours

Prerequisites: ENG 101

3 hours weekly (3-0)

A detailed study of business communication. Includes analysis and practice in writing a variety of messages used to communicate in business and industry. To successfully complete this course, a communication competency examination must be passed with at least 70 percent accuracy prior to the end of the semester.

### **BUS 236 Records Management**

1 Hour

Prerequisites: None

2 hours weekly (0-2)

Emphasis is on the basic principles of modern filing systems—including alphabetic, subject, numeric, chronological, and geographic filing. Students work with practice filing equipment and become acquainted with the rules of

indexing, cross referencing, and coding, as well as retrieval, retention, and recycling of records.

### **BUS 237 Office Procedures**

3 Hours

Prerequisites: BUS 116 or equivalent-CIS 101

3 hours weekly (3-0)

The knowledge and skills necessary to work as an office assistant in today's offices will be presented. Major topical areas include the organization of business offices, communications skills, technology and procedures, document creation and distribution, travel, conference and meeting planning, financial and legal aspects, and professional and continuing development.

### **BUS 255 Customer Service**

3 Hours

Prerequisites: None

3 hours weekly (3-0)

Customer service is the foundation on which business success and profitability is built. This course is about understanding the importance of offering quality service and ensuring customer satisfaction in today's competitive marketplace. Students will learn the principles of customer service and what skills are necessary to work with customers and solve problems in all sectors: corporate, government, industry, real estate, retail, legal, wholesale, healthcare, etc.

### **BUS 270 Medical Office Procedures**

3 Hours

Prerequisites: None

4 hours weekly (2-2)

This course is designed to prepare the student to perform basic office procedures and follow

common practices in today's medical community. Administrative medical office duties covered include mailing procedures, patient reception, telephone communications, travel and meeting arrangements, patient scheduling, patient chart preparation, patient billing, insurance billing, office management, and practice finances. Hands-on application will be provided using a popular practice management software program.

### **BUS 280 Computer Applications for the Medical Office**

3 Hours

Prerequisites: BUS 116 and CIS 101

4 hours weekly (2-2)

This course is designed to prepare the student to use electronic health records (EHR) in today's medical community. First, conceptual theory is presented including history and EHR standards. Then, the student applies theoretical knowledge through in-depth and practical training using a popular EHR software program to equip the student to successfully enter a medical setting with a comprehensive working experience of EHR.

### **BUS 282 Legal Terminology**

3 Hours

Prerequisites: None

3 hours weekly (3-0)

This course is designed to familiarize students with the various fields of law and to develop a working knowledge of the legal terminology commonly associated with each respective field.

## Chemistry (CHM)

### **CHM 141 General, Organic, and Biochemistry I**

IAI – P1 902L

4 Hours

Prerequisites: Two years of high school algebra or MAT 062

6 hours weekly (3-3)

A first semester course of general, organic, and biochemistry sequence designed to meet the needs of students of nursing, dental hygiene, physical therapy, allied health programs, forestry, nutrition, and other majors with comparable requirements. This course covers matter, electrons and chemical bonds, formulas and equations, stoichiometry, gases, solutions, energies, acid-base reactions, radioactivity, and introduction to organic chemistry.

### **CHM 142 General, Organic, and Biochemistry II**

4 Hours

Prerequisites: CHM 141

6 hours weekly (3-3)

Second semester course of general, organic, and biochemistry sequence designed to meet the needs of students of nursing, dental hygiene, physical therapy, allied health programs, forestry, nutrition, and other majors with comparable requirements. This course covers organic compounds and their characteristics, and biological compounds and their role in living organisms.

### **CHM 151 Chemical Principles**

IAI – P1 902L, IAI – CHM 911

5 Hours

Prerequisites: MAT 111 or concurrent enrollment or instructor approval

7 hours weekly (3-4)

A study of the fundamental laws and concepts of chemistry, including formulas, nomenclature, atomic structure, bonding, the periodic chart, equations, stoichiometry, gas laws, and liquids and solids. Laboratory experiments investigate these concepts. A first semester course for students majoring in scientific, pre-professional, engineering, or technological programs.

### **CHM 152 Chemical Principles with Qualitative Analysis**

IAI – CHM 912

5 Hours

Prerequisites: CHM 151

7 hours weekly (3-4)

A study of theory and calculations of chemical equilibrium, ionization, solubility products, redox reactions, acids and bases, and the methods and tools of analysis. The laboratory work consists of qualitative identification of common cations, and gravimetric and volumetric quantitative determinations. Second semester chemistry for science, engineering, and pre-professional majors.

## **CHM 201 Organic Chemistry I**

IAI – CHM 913

5 Hours

Prerequisites: CHM 151

7 hours weekly (3-4)

A course in general organic chemistry intended for chemistry majors and minors and pre-professional students, this examines descriptive and theoretical organic chemistry. Topics discussed include bonding within carbon compounds, stereo-chemistry, reaction mechanisms, and organic reactions involving specific classes of compounds. In the laboratory, students will learn and utilize microscale organic techniques that are integrated with separations using GC and HPLC and with characterizations using IR and UV-Vis spectroscopy. This course is currently offered only in the fall semester.

## **CHM 202 Organic Chemistry II**

IAI – CHM 914

5 Hours

Prerequisites: CHM 201

7 hours weekly (3-4)

This course continues the discussions of CHM 201 topics. Additional classes of organic compounds are studied for physical properties, reactions, mechanisms, and practical uses. Characterization theory is expanded with nuclear magnetic resonance (NMR) theory and mass spectrometry (M.S.). The chemistry of conjugated dienes, benzene, alcohols, aldehydes, ketones, carbohydrates, amines, and amino acids will be studied. The laboratory will expand on established microscale technique with the use of I.R., chromatography and NMR computer simulations. Communication and report writing skills will also be emphasized.

**This course is currently only offered in the spring semester.**



## **Communication (COM)**

### **COM 105 Forensic Activities FORMERLY (SPE)**

3 Hours

Prerequisites: None

3 hours weekly (3-0)

Students may acquire no more than 4 hours credit and not more than 2 hours per year. Hours are to be secured for participating in forensic activities. Designed to provide students with contest speaking experience and to develop skills in concentrated areas of speech.

### **COM 115 Speech FORMERLY (SPE)**

IAI – C2 900

3 Hours

Prerequisites: None

3 hours weekly (3-0)

COM 115 combines communication theory with the practice of oral communication skills. This course: (1) develops awareness of the communication process; (2) provides inventional, organizational, and expressive strategies; (3) promotes understanding of an adaptation to a variety of communication contexts; and (4) emphasizes critical skills in listening, reading, thinking, and speaking. Students are expected to prepare and give at least three substantial speeches, including both informative and persuasive speech assignments. All classes require face-to-face performance of the three substantial speeches with the class and the instructor serving as an in-class audience.

### **COM 116 Interpersonal Communication FORMERLY (SPE)**

3 Hours

Prerequisites: None

3 hours weekly (3-0)

Study of communication theory and its application to interpersonal relations. Relationship skills will be explored, analyzed, and practiced. Among the topics covered are the communication process, the self as communicator, listening, verbal and nonverbal communication, cooperation and conflict management. Students will also develop their individual interpersonal communication skills by increasing their knowledge of behavioral choices in both personal and professional relationships.

### **COM 121 Advanced Public Speaking FORMERLY (SPE)**

3 Hours

Prerequisites: SPE 115 or consent of instructor

3 hours weekly (3-0)

Advanced principles of speech preparation and presentation; special problems and types of speeches; considerable practice in composition and delivery of speeches.

### **COM 200 Small Group Communication FORMERLY (SPE)**

3 Hours

Prerequisites: SPE 115 or SPE 116

3 hours weekly (3-0)

This course explores the communication processes that occur in small groups. Students will study and apply communication theory in order to enhance their effectiveness as small group communicators. Focus is given to group

formation, group membership, and decision-making and problem-solving procedures.

**COM 201 Writing for Mass Media FORMERLY (JRN)**

IAI – MC 919

3 Hours

Prerequisites: None

3 hours weekly (3-0)

Introduction to news writing includes basic techniques of news gathering, reporting, interviewing, computer-assisted reporting, editing, and layout. Some course-work may be published in the student newspaper, The Volunteer.

**COM 202 Writing for Mass Media II FORMERLY (JRN)**

3 Hours

Prerequisites: JRN 201

3 hours weekly (3-0)

A continuation of news gathering and writing skills. Coursework will be published in The Volunteer student newspaper. Assignments include investigative re-orting, computer-assisted reporting, and a site visit to a local media outlet.

**COM 210 New Media Production Practicum FORMERLY (JRN)**

1-4 Hours

Prerequisites: Consent of instructor

2-8 hours weekly

Students earn credit by joining The Volunteer newspaper staff, increasing their proficiency in one or more of the tasks required to produce consistently a high-quality student newspaper. Volunteer staff members gain an understanding

of the collaborative nature of newspaper work through active participation in one or more of the following areas: newswriting, editing, news photography, design, layout, and/or advertising. Students use the resources available in and outside the newsroom to increase their skills.

**COM 215 Introduction to New Media FORMERLY (JRN)**

IAI – MC 911

3 Hours

Prerequisites: None

3 hours weekly (3-0)

This is an introduction to the various types of mass media, their effect on the public, their development, and ways in which the consumer can be perceptive and discriminating.

## **Computer Information Systems (CIS)**

### **CIS 104 Spreadsheet Design**

3 Hours

Prerequisites: None

4 hours weekly (2-2)

This course is designed to provide the business student with skills and knowledge necessary to design and implement practical spreadsheet models using Microsoft Excel software. Students will use basic business mathematics skills to design problem-solving models that can be used in the analysis of data. This course will help the student prepare to take the Microsoft Certified Application Specialist Exam.

### **CIS 105 Current Operating Systems/Security**

3 Hours

Prerequisites: None

4 hours weekly (2-2)

This course is intended for beginners and intermediate end users who want to increase their understanding of computer and information security issues and practices, as well as explore the basics of a current operating system.

### **CIS 110 Introduction to Word Processing**

2 Hours

Prerequisites: None

3 hours weekly (1-2)

This course is designed to provide the student with skills to become effective and efficient in using a popular word processing software. The student will incorporate critical thinking skills along with problem-solving techniques to master this software package. This course is designed for students who would like to master

a word processing package and cover many Microsoft Certification exam topics.

### **CIS 120 Data Base Management**

3 Hours

Prerequisites: None

4 hours weekly (2-2)

This course is designed to provide the student with fundamental database concepts. The student will be able to create and maintain tables, forms, queries, and reports. Skills will go beyond that of utilizing the wizards. Customized forms and reports will be developed. Interacting with the Web, setting table relationships, and data integration with other applications will be covered. Many of the Microsoft Certification exam topics will be covered.

### **CIS 170 Cisco I**

5 Hours

Prerequisites: None

7 hours weekly (3-4)

The CCENT Certification validates the skills required for entry-level network support positions, the starting point for many successful careers in networking. CCENT certified professionals have the knowledge and skill to install, operate, and troubleshoot a small enterprise branch network, including basic network security.

### **CIS 171 Introduction to Scripting**

4 hours

Prerequisite: None

5 hours weekly (3-2)

This course provides students with the fundamental knowledge and skills to use scripting. It focuses on primary Windows

PowerShell command line features and techniques for use with Windows Server and other Microsoft Windows products. Students will also learn basic scripting including, loops, counters, and arrays.

### **CIS 200 Network Essentials**

3 Hours

Prerequisites: None

3 hours weekly (2-2)

This course will provide the student with a general background in networking concepts, procedures and skills necessary in a computer network environment. This course is designed to familiarize the student with an overview of network topologies, physical network architecture, various networking operating systems and a brief introduction into Microsoft Active Directory. This class will also provide the student with necessary skills in troubleshooting and help desk topics necessary for the network's technician and software specialist.

### **CIS 206 Managing Network Environments I**

3 Hours

Prerequisites: CIS 200 or concurrent enrollment

4 hours weekly (2-2)

This course is designed to give the student knowledge and practical experience in administering a Microsoft Server network. Students will be able to describe the principle features of a network operating system and the networking basics of active directory. Students will gain an understanding of the basic components of an information technology system. The student will work with and troubleshoot in the areas of installation of the network operating system, setting up users and groups, assignment of group policy and permissions of a network. This course will assist

the student in preparing for an industry recognized certification exam.

### **CIS 207 Computer Applications for Business**

IAI – BUS 902

3 Hours

Prerequisites: None

4 hours weekly (2-2)

This lecture and hands-on lab course will provide an overview of operating systems, file management techniques, Internet, email and computer conferencing software and apps, basic coding principles for web design, word processing, spreadsheets, database management and presentation software.

### **CIS 208 Security Awareness**

3 Hours

Prerequisites: None

4 hours weekly (2-2)

This course is designed to provide a security awareness overview and emphasize the importance of information systems as well as the home computer system will be covered. Issues will include personal, Internet, and organizational security. Types of security attacks will be discussed, prevention methods will be determined, and recovery plans will be developed. Policies and procedures that will assist in preventing an invasion of privacy will be covered.

### **CIS 209 Introduction to Cybercrimes**

3 Hours

Prerequisites: Must be 18 years of age or older.

3 hours weekly (3-0)

This course will introduce students to the investigation of computer-based crimes and the

importance of preserving and correctly interpreting digital evidence. The course material will review computer crimes and associated terminology and the types of crimes committed in cyberspace. The student will also research and use data collection tools, learn proper collection and preservation of digital evidence, study domestic and international legal issues in cyberspace, and document and report data acquisition findings.

### **CIS 213 Penetration Testing**

3 Hours

Prerequisites: CIS 208

4 hours weekly (2-2)

This course teaches students the underlying principles and many of the techniques associated with the cybersecurity practice known as penetration testing. Students will learn about the entire penetration testing process including planning, reconnaissance, scanning, exploitation, post-exploitation, and result reporting. The course will provide the fundamental information associated with each of the methods employed and insecurities identified. In all cases, remedial techniques will be explored. Students will develop an excellent understanding of current cybersecurity issues and ways that user, administrator, and programmer errors can lead to exploitable insecurities.

### **CIS 216 Cloud Technology**

3 Hours

Prerequisites: CIS 206 with Minimum Grade: C

4 hours weekly (2-2)

Guide to Supporting Microsoft Private Clouds instructs future network administrators how to effectively implement and maintain Microsoft® private clouds with a balance of conceptual expertise and hands-on skills. Ideal for your

server administration course, this text prepares students to work with large providers, such as Amazon, Microsoft®, and Google, as well as implement smaller scale cloud computing solutions within their own network environments.

### **CIS 219 Ethical Hacking**

3 Hours

Prerequisites: CIS 209 or CIS 230 with a grade of "C" or higher

4 hours weekly (2-2)

This course provides an in-depth understanding of how to effectively protect computer networks. Students will learn the tools and penetration testing methodologies used by ethical hackers. In addition, the course provides a thorough discussion of what and who an ethical hacker is and how important they are in protecting corporate and government data from cyber-attacks. Students will learn updated computer security resources that describe new vulnerabilities and innovative methods to protect networks. Also covered is a thorough update of federal and state computer crime laws, as well as changes in penalties for illegal computer hacking.

### **CIS 220 Advanced Spreadsheet Design**

3 Hours

Prerequisites: CIS 104

4 hours weekly (2-2)

This course is a continuation of CIS 104 and builds upon basic design skills. It provides the student with an opportunity to develop advanced techniques in the design of business applications. Advanced study of special mathematics, logical, and database statistical functions will provide the foundation for advanced program design. Problem solving for managerial and accounting decision making is

emphasized, and design techniques incorporating the use of macros, menu layout, and data transfer are included using Microsoft Excel. This course will help the student prepare to take the Microsoft Certified Application Specialist Exam.

### **CIS 225 Advanced Data Base Management**

3 Hours

Prerequisites: CIS 120

4 hours weekly (2-2)

This course is a continuation of CIS 120. The concepts needed to develop and maintain a database system at an advanced level will be emphasized. Items that will be covered are: advanced query manipulation, table linking, macro programming, planning and creating a switchboard application as well as applying custom toolbars. Business simulated projects will be a major part of the curriculum. Upon completion of this course, the student should be prepared to take the Microsoft Certification exam.

### **CIS 229 Digital Forensics**

3 Hours

Prerequisites: CIS 209 with a grade of "C" or higher

4 hours weekly (2-2)

Provides an introduction to Digital Forensics from a theoretical and practical perspective and an introduction to investigative tools and techniques used in the field. Personal computer operating system architectures and disk structures are reviewed and the proper use of available computer forensic hardware and software tools are examined. Other topics include the importance of digital evidence controls, the method of processing crime and incident scenes, the details of data acquisition, and the requirements of an expert witness. The

course provides a range of laboratory and hands-on activities and assignments that emphasize both the theory and the practical application of computer forensic investigations.

### **CIS 230 Operating Systems**

3 Hours

Prerequisites: None

4 hours weekly (2-2)

Students will learn important concepts about operating systems while applying skills and knowledge to support computers in a business environment or an IT position. Students will also learn the theory and technical information professionals need as they work with today's popular operating systems, such as Windows and UNIX/Linux platforms. Topics include operating system theory, installation, upgrading, configuring, (operating system and hardware), file systems, security, hardware options, and storage, as well as resource sharing, network connectivity, maintenance, and troubleshooting. This course prepares students to understand the fundamental concepts of today's computer operating systems.

### **CIS 231 Firewalls and VPNs**

3 Hours

Prerequisites: CIS 230 with a grade of "C" or higher

4 hours weekly (2-2)

This course examines the major network security tools in use today, with the idea that firewalls are most effective when backed by thoughtful security planning, well-designed security policies, and integrated support from anti-virus software, intrusion detection systems, and related tools. Coverage includes packet filtering, authentication, proxy servers, encryption, bastion hosts, virtual private

networks (VPNs), log file maintenance, and intrusion detection systems. The course will provide numerous realistic projects and cases incorporating cutting-edge technology and current trends, giving students the opportunity to hone and apply the knowledge and skills they will need as working professionals. Students will also learn about relevant National Institute Standards and Technology guidelines that are used by businesses and information technology professionals.

### **CIS 270 Cisco II**

4 Hours

Prerequisites: CIS 170 with a grade of "C" or higher

4 hours weekly (3-2)

The CCNA R&S certification validates the ability to install, configure, operate, and troubleshoot medium-size routed and switched networks. CCNA certified professionals have the knowledge and skills to make connections to remote sites via a WAN, and mitigate basic security threats. CCNA R&S training covers (but is not limited to) the use of these topics: IOS, IPv6, IPv4, OSPF, Cisco Licensing, Enhanced Interior Gateway Routing Protocol (EIGRP), Serial Line Interfaces, Frame Relay interfaces, VLANs, Ethernet, VLSM, and basic traffic filtering.

## Computer Science (CPS)

### **CPS 176 Introduction to Computer Programming**

4 Hours

Prerequisites: MAT 062 or equivalent

5 hours weekly (3-2)

This course provides an initial exposure to computers and programming, fostering competence in a high-level language via hands-on experience. This course serves as a prerequisite for more intensive study of other high-level languages and lays the groundwork for understanding problem-solving and common programming language constructs. Students will be introduced to structured programming methodologies, syntax and semantics of a popular, high-level programming language, algorithm development, and good programming style guidelines. Students will be expected to complete a variety of programming lab assignments both during scheduled lab times and outside of class. This course is also offered as part of a study abroad program. Contact the International Education Coordinator for more information.

### **CPS 202 Discrete Structures (Also MAT 125)**

IAI – CS 915, IAI – MI 905

3 Hours

Prerequisites: MAT 108 or MAT 111 either with a grade of “C” or higher or assessment

3 hours weekly (3-0)

This course is a general education mathematics course which fulfills 3 hours of the core curriculum mathematics requirement. Topics include number systems, sets, relations and functions, logic, Boolean algebra, elementary matrix operations, combinations, permutations,

counting techniques, and basic concepts of probability, graphs, and trees.

**This course is ordinarily offered in the fall semester in odd numbered years.**

### **CPS 206 Computer Science I**

IAI – CS 911

4 Hours

Prerequisites: MAT 111 Pre-Calculus with a grade of “C” or higher

5 hours weekly (3-2)

The first in a sequence of courses for majors in Computer Science, Mathematics, and Engineering. Introduces a disciplined approach to problem-solving and algorithm development in addition to an introduction to procedural and data abstraction. Covers: selection, repetition, and sequence control structures; program design, testing, and documentation using good programming style; block-structured high-level programming languages; and arrays, records, and files utilizing a popular, high-level programming language.

### **CPS 215 Computer Science II**

IAI – CS 912

4 Hours

Prerequisites: CPS 206 with a grade of “C” or higher or consent of instructor

5 hours weekly (3-2)

The second in a sequence of courses for majors in Computer Science. Covers: design and implementation of large-scale problems; abstract data types; data structures (files, sets, pointers, lists, stacks, queues, trees, graphs; program verification and complexity; recursion; dynamic concepts (memory, scope, block structures); text processing; and an introduction to searching and sorting algorithms utilizing a



popular, high-level programming language. **This course is offered in the fall semester only.**

## **Construction Management Technology (CMG)**

### **CMG 100 Construction Orientation**

1 Hour

Prerequisites: None

1 hour weekly (1-0)

Construction Orientation is designed to introduce the student to the many career opportunities in the construction industry. The course allows the student the opportunity to ask questions about the industry as a whole. The course also refines construction math skills to help facilitate the other construction management courses.

### **CMG 101 Building Green**

3 Hours

Prerequisites: For students not pursuing a Construction Management major.

3 hours weekly (3-0)

This course is an introduction to new emerging building systems for residential construction. A major focus of this course will be the introduction of green building products and ways to be more energy efficient. That national green building standard will be used as the guidelines for this course.

### **CMG 104 Building Layout**

4 Hours

Prerequisites: None

6 hours weekly (2-4)

The student will perform basic surveying operations necessary for the location, layout, and construction of a building. Techniques will include taping, differential leveling, laying off vertical and horizontal angles, topographic surveys, and construction control surveys.

### **CMG 105 Estimating Techniques**

3 Hours

Prerequisites: None

3 hours weekly (3-0)

This course is designed to familiarize the student with construction cost estimating. The five (5) basic elements involved in the estimating process will be covered. These five elements are: (1) working drawings and specifications; (2) subcontractor's bids; (3) quantity take-offs; (4) checklists; and (5) a summary cost estimate. A major emphasis will be placed on accurate quantity takeoffs.

### **CMG 107 Construction Document Interpretation**

3 Hours

Prerequisites: None

4 hours weekly (2-2)

The purpose of this course is to introduce the student to the various conceptual documents used in the construction process. The primary focus will concentrate on interpretation and visualization of construction blueprints and understanding the use of construction specifications. Residential and commercial projects will be covered.

### **CMG 108 Construction Materials**

4 Hours

Prerequisites: None

6 hours weekly (2-4)

The student will learn about soil properties and how they play a major role in building design and site work. Students will also obtain knowledge of concrete, its physical and mechanical properties, and the design and control of concrete mixes. In the laboratory portion of the class, students will learn the

fundamentals of placing, finishing, and testing for quality control.

### **CMG 110 Structural Framing I**

4 Hours

Prerequisites: None

5 hours weekly (3-2)

This course will introduce the student to the basic processes, terminology, procedures, and building components of wood frame construction. With this basic understanding of construction concepts, the student can build a foundation for a career in the construction industry. The course facilitates classroom learning with actual field applications.

### **CMG 111 Structural Framing II**

3 Hours

Prerequisites: None

4 hours weekly (2-2)

This course is a continuation from the wood framing construction course, designed so the student can synthesis a complete residential building. Special emphasis will be directed at the materials and application of these materials to complete the exterior and interior of the building.

### **CMG 207 Construction Administration**

2 Hours

Prerequisites: CMG 105 and CMG 107

2 hours weekly (2-0)

This course is designed to help the student understand the concepts involved with the management and ownership in the construction process. The focus of this course will cover pre-construction through final completion, viewed from the constructor's perspective.

### **CMG 208 Processes in Estimating**

3 Hours

Prerequisites: CMG 105 or consent of instructor

3 hours weekly (3-0)

The course builds upon CMG 105, Estimating Techniques, and will introduce more advanced methods of cost estimating. From a set of blueprints the students will apply man hours, labor costs, and material costs to quantity takeoffs. In a portion of this course the students will learn to utilize Timberline Corporation's Precision Estimating software package. Students will learn how to interpret data generated and how to modify the computer program to meet their estimating needs.

### **CMG 209 Environmental Systems**

3 Hours

Prerequisites: CMG 105 and CMG 107

3 hours weekly (2-2)

This course is designed to introduce the student to the basic terminology and principles of electrical, plumbing, and air conditioning systems. The student will also gain an understanding of the importance of the respective design engineers in the building process.

### **CMG 210 Building Renovations**

3 Hours

Prerequisites: CMG 110

4 hours weekly (2-2)

Students will acquire knowledge of the techniques and technologies necessary to remodel, repair, or renovate existing residential and commercial buildings. The student will study the design and construction techniques

required to convert unused areas into additional living space, make additions to existing structures, upgrade mechanical and electrical systems to meet building codes and repair, renovate, and maintain older buildings.

### **CMG 211 Commercial Construction**

3 Hours

Prerequisites: CMG 108 or consent of instructor.

3 hours weekly (3-0)

The course will acquaint the student with the latest methods, materials, and equipment used within the industry and will familiarize the student with concepts of the construction industry that have stood the test of time. Traditional materials such as reinforced concrete, masonry, steel, and timber will be thoroughly examined in conjunction with recent developments in the construction industry.

### **CMG 212 Construction Business Management**

3 Hours

Prerequisites: CMG 105 and CMG 107

3 hours weekly (3-0)

The student will be introduced to processes and methods of administrative responsibilities, which will help in producing a quality construction project.

### **CMG 215 Green Building in the 21<sup>st</sup> Century**

3 Hours

Prerequisites: Students must be second year Construction Management majors.

3 hours weekly (3-0)

This course provides an overview of new emerging building systems for single, multi-family and remodeling to meet the national green building standard. The course will also

focus on energy efficiency and discuss the impact that construction has on the environment.

### **CMG 218 CAD for Construction**

3 Hours

Prerequisites: Students must be second year Construction Management majors.

4 hours weekly (2-2)

This course will introduce the construction student on how to design and draw plans for residential construction. The student will utilize software to design a complete set of building plans. The course will focus on construction phases from site design to the completed exterior finishes and landscaping.

### **CMG 220 Construction Scheduling**

3 Hours

Prerequisites: CMG 105 and CMG 107

3 hours weekly (3-0)

This course is an introduction to modern construction scheduling methods and techniques. The application of various scheduling methods will provide an understanding of the importance that time phasing and coordination have on completing a construction project in a timely manner.

### **CMG 221 Land Development**

3 Hours

Prerequisites: Students must be second year Construction Management majors.

4 hours weekly (2-2)

This course will present the social and economic needs, and the legal regulations involved when developing a parcel of land into a housing community. The student will design and

calculate the infrastructure to meet the mandated code requirements.

**CMG 226 Statics for Structures**

3 Hours

3 hours weekly (3-0)

Prerequisites: None

Students will learn fundamental principles of mechanics as they use tables and formulas in the determination of loads and the selection of wooden members and steel connectors which will safely carry these loads on floor and roof systems.

## **Cosmetology (COS)**

### **COS 101 Cosmetology Theory I**

6 Hours

Prerequisites: None

6 hours weekly (6-0)

This course is a study of professional ethics, personal hygiene and grooming, visual poise, and personality development for application in our daily relationships with others. The study of bacteriology, decontamination, and infection control for application of safe and necessary disinfection methods is emphasized. Also included is the study of hair, skin, and their disorders for use in chemical and physical applications. The basic introduction of anatomy and physiology to be applied in specific skill areas will also be emphasized.

### **COS 102 Cosmetology Theory II**

5 Hours

Prerequisites: COS 101

5 hours weekly (5-0)

The cosmetology program is designed to give students thorough training in the arts, skills, and applied science that deals with the adornment of the hair, skin, and nails. This course is designed to provide the students with a study of basic principles of salon management, nail disorders, preparing a resume, and provide the students with a study of basic principles of electricity and light therapy as applied to beauty science, Illinois law, and chemistry as applied to cosmetics.

### **COS 111 Cosmetology Lab I**

11 Hours

Prerequisites: None

33 hours weekly (0-33)

This course includes demonstrations and lectures by instructors with student participation and application of beauty services which include fingerwaving, hairstyling, application of permanent waving, hair coloring, superfluous hair removal, basic make-up application, and demonstrates how to achieve basic skill areas in shampooing, draping, brushing, thermal waving, blow drying, and hair shaping. Students will exchange beauty services on each other and will perform beauty skills on patrons in the clinic laboratory. Each student is responsible for sanitation duties to be performed in the clinic as required by the Department of Professional Regulation, State of Illinois.

### **COS 112 Cosmetology Lab II**

11 Hours

Prerequisites: COS 111

33 hours weekly (0-33)

This course is a continuation of hairstyling, chemistry and application of permanent waving, chemical hair relaxing and hair transformations and includes review and practice of skill areas taught in Cosmetology III with demonstration and lectures by instructors. Students will participate and demonstrate skills learned through performance by exchanging services on each other and patrons in the clinical laboratory. Each student is responsible for sanitation duties to be practiced in the clinic laboratory as required by the Department of Professional Regulation, State of Illinois.

### **COS 113 Cosmetology Lab III**

4 Hours

Prerequisites: COS 101, 111

10 hours weekly (1-9)

This course is a review and practice of theory and skill areas taught in previous courses through demonstrations and lectures taught by an instructor. Students will practice skills on each other, mannequins, and clients during laboratory time. Each student is responsible for sanitation duties to be practiced in the laboratory as required by the Department of Professional Regulation, State of Illinois.

### **COS 114 Cosmetology Internship Program**

2 Hours

Prerequisites: COS 101, 111, 750 clock hrs.

10 hours weekly (0-10)

This course is designed to be an extended salon experience, a supplemental, off-campus, on-the-job experience for qualified students.

### **COS 250 Instructional Strategies**

5 Hours

Prerequisites: Valid Illinois Cosmetology License with two years experience within last five years.

11 hours weekly (2-9)

This course is designed to teach the students various methods of instruction. Teachers should possess an array of teaching strategies in order to meet the widely varying learning styles, interests, and abilities of their students. By providing a variety of teaching methods that are suited to the goals of instruction and the needs of students, the cosmetology teacher will be highly productive and experience satisfaction in the teaching role.

This course will also provide guidelines and strategies for planning, implementing, and maintaining an effective behavior management system in the classroom. The foundation of any behavior management system consists of the behavioral expectations that set the standards for appropriate conduct in the classroom. These expectations are reflected in the teacher's rules, consequences, and procedures.

### **COS 251 Cosmetology Teacher Program**

8 Hours

Prerequisites: Concurrent enrollment in Cosmetology 250. Must have a valid Illinois cosmetology license with a minimum of 2 years full-time work experience within the last 5 years. Letters from clients, managers, etc., verifying 2 years experience.

16 hours weekly (0-16)

This course is designed to give the student information in practical and theoretical applications used in the classroom and laboratory, which are taught in COS 250, Instructional Strategies. Upon completion of the 256 clock hours, students can make application to the State Board of Cosmetology, Department of Professional Regulations for examination for Cosmetology Teachers License.

### **COS 260 Cosmetology Review**

8 Hours

Prerequisites: Lapsed Cosmetology License

16 hours weekly (0-16)

This course is designed as a refresher course for cosmetologists who need to renew their license or simply update their skills. This program is a compilation of topics covering the pertinent objectives necessary for the learner to accomplish in order to enter the work force.

## **Criminal Justice (CRJ)**

### **CRJ 103 Introduction to Criminal Justice**

IAI – CRJ 901

3 Hours

Prerequisites: None

3 hours weekly (3-0)

A review of historical and ideological foundations of the criminal justice system; delineation of major patterns of practice and organizational structure; specific focus on and description of the primary components of the criminal justice system and their relationships.

### **CRJ 105 Criminal Behavior**

IAI – CRJ 912

3 Hours

Prerequisites: None

3 hours weekly (3-0)

An introduction to criminological theories and their application to the nature and causes of crime; utilization of theory in the analysis of and attempts to control crime; explanation of the multi-disciplinary aspects of criminology; discussion of interconnected relationship between the criminal justice system, offender, and the victim.

### **CRJ 115 Policing**

3 Hours

Prerequisites: CRJ 103 and 105

3 hours weekly (3-0)

This course examines the law enforcement component of the criminal justice system. The historical and contemporary perspective of policing in America is explored. Various issues such as organization, role, recruitment, patrol, discretion, police-community relations, police

accountability, and international comparisons are studied. Upon completion of this course, the student will have an understanding of the internal and societal challenges that confront police on a daily basis.

### **CRJ 203 Introduction to Security**

3 Hours

Prerequisites: None

3 hours weekly (3-0)

This course will introduce the student to public and private security issues. Emphasis will be placed on history of public and private security agencies, proprietary and contractual organizations of security, security planning, asset protection and loss prevention, physical security and design.

### **CRJ 205 Investigation Techniques**

3 Hours

Prerequisites: None

3 hours weekly (3-0)

This course enables the student to examine the major theories and techniques of criminal investigation. Upon completion of this course, the student will have an understanding of the techniques of criminal investigation and will have learned some of the skills of investigation. He or she will also have learned the value and techniques of preserving evidence and how the chain of evidence is vital to a successful prosecution.

### **CRJ 209 Criminal Law**

3 Hours

Prerequisites: None

3 hours weekly (3-0)

This course covers the substantive criminal law encompassed in the criminal code and the



constitutional limits on criminal law. Upon completion of the course, the student will be familiar with the key provisions of the criminal code, including elements of the offenses, parties to crimes, and defenses to criminal liability.

### **CRJ 210 Introduction to Forensic Investigation**

3 Hours

Prerequisites: None

3 hours weekly (3-0)

This is an orientation course dealing with the application of several scientific methods of criminal investigation of crime scenes. Topics discussed will include polygraph, firearms, and tool mark identification, hair and fiber examination, drug analysis, serial numbers restoration, crime scene investigation, and the investigator's role in the post-mortem examination.

### **CRJ 218 Introduction to Corrections**

IAI – CRJ 911

3 Hours

Prerequisites: CRJ 103 and 105

3 hours weekly (3-0)

An examination of the United States correctional system to include; county jails, juvenile facilities, state and federal prison systems. Emphasis will be placed on administration and operational models in both the community and institutional environment, history and evolution of corrections, correctional institution designs, constitutional law considerations, and punishment philosophies.

### **CRJ 219 Criminal Procedure**

3 Hours

Prerequisites: CRJ 209

3 hours weekly (3-0)

This course will examine the due process functions of the criminal law. Upon completion of the course, the student will have an understanding of the law and constitutional considerations concerning probable cause, arrest, search and seizure, stop and frisk, confessions and admissions, and legal evidence. Recent Supreme Court decisions affecting these areas will be covered.

### **CRJ 220 Probation, Parole, and Community-Based Corrections**

3 Hours

Prerequisites: CRJ 103 and 105

3 hours weekly (3-0)

This course will examine alternatives to incarceration and include the history and philosophical foundations of such programs. Special emphasis will be given to probation and parole systems, models of community-based corrections such as group homes, work release programs, and half-way houses. Treatment and rehabilitation methods will also be covered.

### **CRJ 221 Police Administration**

3 Hours

Prerequisites: CRJ 103 and 105

3 hours weekly (3-0)

This course will introduce the student to modern principles of organization and management. The course will provide background in organizational theory, behavior, and administration. Emphasis will be placed on objectives of police operations and future trends in police administration.

## **CRJ 223 Juvenile Justice**

IAI – CRJ 914

3 Hours

Prerequisites: CRJ 103 and 105

3 hours weekly (3-0)

This course is a general overview of the juvenile justice system in the United States, with a concentration on the methods available for dealing with juvenile victims and offenders in the State of Illinois. The course includes historical and contemporary perspectives on the justice system's handling of minors as well as definitions of the different categories of juvenile court cases, techniques for treating juvenile victims and offenders, types of foster care and residential treatment facilities available for minors, and types of community-based programs that deal with juvenile offenders. A major portion of the course will deal with delinquency issues, including informal and formal supervision, detention, institutionalization, gangs, and alcohol/drug use by minors.

## Dental Assisting (DNA)

### DNA 100 Oral and Dental Anatomy

2 Hours

Prerequisites: None

2 hours weekly (2-0)

Dental anatomy is designed to give the student a basic understanding of crown and root development, morphology, and functional and positional relationships of the teeth within the dentition.

### DNA 101 Dental Emergencies & Pathology

2 Hours

Prerequisites: Completion of all fall semester DNA courses.

2 hours weekly (2-0)

This course is designed to introduce the student to the signs, symptoms, and treatment of medical emergencies in the dental office, and identify the supplies and materials needed in managing medical emergencies. Basic knowledge about oral pathology and associated terminology will be used to describe deviations from the normal in the patient's mouth.

### DNA 102 Dental Assisting Procedures I

4 Hours

Prerequisites: None

6 hours weekly (2-4)

An introduction to the basic equipment, instruments, and procedures associated with the dental office, with emphasis being placed on learning to assist the dentist during four-handed dental procedures utilizing mannequins, demonstrations, and student practice. Principles and procedures of oral diagnosis and treatment planning, tooth numbering and surface annotation, local anesthesia, isolation

procedures, and instrument use, care, and sterilization will be presented. The principles of cavity preparation and choice of materials and instrumentation for restoring amalgam and composite restorations will be used.

### DNA 103 Dental Assisting Procedures II

2 Hours

Prerequisites: Completion of all fall semester DNA courses.

3 hours weekly (1-2)

This course utilizes the basic knowledge and skills required in DNA 102 to increase skill competency levels in operative dentistry with major emphasis given to principles and procedures of the dental specialties, including endodontics, periodontics, orthodontics, prosthodontics, pedodontics, and oral surgery. Patient care, management, and diagnosis and treatment planning for each specialty area will be presented. Assisting skills will be learned utilizing mannequins, demonstrations, and student practice. This class must be successfully completed before beginning an externship in a dental office.

### DNA 104 Dental Radiography I

3 Hours

Prerequisites: None

4 hours weekly (2-2)

This course provides an introduction to dental radiography. The material covered includes basic theory regarding radiography, its equipment and equipment usage, the effects and hazards of radiation, and operator/patient protection during radiographic procedures. The types of exposures included in this course include bitewings and periapicals (bisecting and paralleling). This course provides the student with the technical knowledge needed for positioning, exposing, processing, mounting and

evaluating dental radiographs (to the extent of normal anatomy). The student will receive practical experience exposing and processing radiographs on mannequins.

### **DNA 105 Dental Radiography II**

2 Hours

Prerequisites: Completion of all fall semester DNA courses.

3 hours weekly (1-2)

Utilizing the basic knowledge and skills emphasized in DNA 104, this course increases the skill competency levels to prepare diagnostically acceptable intraoral radiographs using paralleling and bisecting techniques. In addition, this course will encompass the techniques for exposing radiographs on children, edentulous patients, and other special populations. Developing skills in the extraoral techniques will be included. The student will receive practical experience exposing radiographs on mannequins and selected patients.

### **DNA 106 Preventive Dental Health Education**

3 Hours

Prerequisites: Completion of all fall semester DNA courses.

4 hours weekly (2-2)

A review of the etiology of dental caries and a study of dental plaque and periodontal disease with emphasis on the prevention and control. The role of the dental assistant in regard to oral health education will be the primary focus. The basic content, including proper nutrition and oral hygiene, directs students toward the ability to practice their communication skills and nutritional counseling skills as they relate to preventive dental health education. The student will receive practical experience for the delivery of dental health education.

### **DNA 107 Dental Materials**

3 Hours

Prerequisites: None

4 hours weekly (2-2)

A study of the physical and chemical properties and origin of dental materials, including the manufacturing process of specific materials. Dental materials is a science dealing with the development, properties, manipulation, care, evolution, and evaluation of materials used in the treatment and prevention of dental diseases. Through the understanding of how basic principles affect the choice, manipulation, patient education, and care of all materials used to assist in rendering dental services, the dental assistant can help ensure the ultimate success of a patient's dental work. Laboratory experiences are designed to develop competency in skills of manipulation and application of the materials to dental procedures.

### **DNA 108 Head and Neck Anatomy**

2 Hours

Prerequisites: None

2 hours weekly (2-0)

Head and Neck Anatomy is designed to give the student a basic understanding of the major anatomical landmarks of the head and neck, their location, innervation, blood supply, and function.

### **DNA 109 Dental Office Procedures**

2 Hours

Prerequisites: Completion of all fall semester DNA courses.

3 hours weekly (1-2)

Business skills needed to function successfully as a dental secretary/office manager will be explored. Written skills (appointment book, accounts receivable and payable, fee collection, and recording) will be stressed. Proper bookkeeping (check writing, statement reconciliation, petty cash, etc.) will be explained and practiced. Prepaid dental care plans, payment plans, and necessary forms will be discussed. Effective oral and written communication with the public will be stressed. The student will receive computer experience using dental software programs. Knowledge and mastery of these procedures will enable the student to assist in the operation of an efficient dental office.

### **DNA 110 Infection Control**

1 Hour

Prerequisites: None

1 hour weekly (1-0)

This course is designed to provide the student with the basic concepts, procedures, and current regulatory mandates related to infection control and the management of hazardous materials for the dental team.

### **DNA 112 Dental Assisting Externship**

5 Hours

Prerequisites: Completion of all fall semester DNA courses.

21 hours weekly (1-20)

A clinical practice learning experience to increase dental assisting skills to job-entry level

competency. Clinical assignments in various dental specialty practices, as well as general dentistry practices will provide opportunities for advanced skill development in chairside assisting techniques, clinical support, and business office procedures. Students will demonstrate effective therapeutic communication skills. Ethical, legal, and personal responsibilities, testing and certification requirements, employer-employee relationships, job opportunities, professional development and continuing education, and current techniques/ equipment will be discussed in group sessions.

### **DNA 113 Oral Embryology & Histology**

2 Hours

Prerequisites: None

2 hours weekly (2-0)

Oral Embryology and Histology is designed to provide the student with the knowledge to understand the embryological development and microscopic examination of orofacial organs and structures.

### **DNA 200 Dental Expanded Functions**

3 Hours

Prerequisite: Students enrolling in this course must have the following completed prior to enrollment:

CPR Certification, Successful completion of CODA accredited Dental Assisting Program **OR** Successful completion of the DANB **OR** A Certified letter from a dentist indicating five years of full time work. DNA 100, DNA 101, DNA 106, DNA 108 and DNA 110 must be successfully completed at JALC.

5 hours weekly (1-4)

This condensed course expands the basic knowledge and skills to the current expanded

functions allowed in Illinois. This includes coronal polishing, supragingival scaling, placing pit & fissure sealants, starting the flow of oxygen and monitoring of nitrous oxide-oxygen analgesia. The course will be taught with an online component, in addition to face to face lectures, lab and clinical patient experience. Students must complete this course with a grade of 75% or higher. Upon this completion, the student may enroll in DNA 202 Dental Expanded Functions: Restorative.

**DNA 202 Dental Expanded functions:  
Restorative**

4 Hours

Prerequisites: Students enrolling in this course must have the following completed prior to enrollment:

CPR Certification, Successful completion of DNA 200 Dental Expanded Functions, Successful completion of CODA accredited Dental Assisting Program **OR** Successful completion of the DANB **OR** A Certified letter from a dentist indicating five years of full time work. DNA 100, DNA 101, DNA 106, DNA 108 and DNA 110 must be successfully completed at JALC.

6 hours weekly (2-4)

This condensed course expands the basic knowledge and skills to the current expanded functions allowed in Illinois. This includes material or digital final impressions, bite registrations, placing and carving, and finishing of amalgam restorations and placing, packing and finishing composite restorations. This class will be taught through online, didactic, lab and clinical patient experience. Students must complete this course with a grade of 75% or higher, along with the observation and approval of eight completed amalgam or composite restorations by a supervising dentist. Upon successful completion of these functions the

participant will be awarded a Certificate of Completion in Expanded Functions- Restorative.

## **Adult Cardiac Diagnostic Medical Sonography (DMS)**

### **DMS 104 Diagnostic Ultrasound Foundations**

3 Hours

Prerequisites: Acceptance into Diagnostic Medical Sonography Program

3 hours weekly (3-0)

A study of clinical medicine pertinent to sonography including obtaining the clinical history and related clinical signs and symptoms from the patient chart or interview. Diagnostic testing pertinent to the ultrasound diagnosis and specialized medical terminology are discussed and defined. Medication terminology, classification and administration will be introduced. Ultrasound equipment, equipment controls, laboratory setup, and the beginning physical principles associated with diagnostic medical sonography are discussed. Quality control, medical ethics, legal issues, and ergonomics associated with diagnostic medical sonography are discussed and defined.

### **DMS 200 Medical Physics and Instrumentation**

5 Hours

Prerequisites: DMS 104, DMS 202, DMS 204, and DMS 206

5 hours weekly (5-0)

This course will cover ultrasound instrumentation and the physical principles of sound, ultrasound, and Doppler pertinent to sonography. Emphasis will be placed on propagation principles, transducer parameters, interactive properties of ultrasound with human tissues, and quality control procedures.

### **DMS 202 Cardiac Anatomy and Physiology**

4 Hours

Prerequisites: Acceptance into Diagnostic Medical Sonography Program

4 hours weekly (4-0)

This course is a study of the cardiac and vascular anatomy and physiology in the normal and abnormal patient. The hemodynamics, pathology, and pathophysiology of the cardiac system are discussed and analyzed. The pathology, clinical signs and symptoms, diagnostic testing, and treatment of various cardiac diseases are discussed. This is an Internet course.

### **DMS 204 Cardiac Ultrasound Imaging/Lab I**

6 Hours

Prerequisites: Acceptance into Diagnostic Medical Sonography Program

8 hours weekly (4-4)

This course will cover the basic terminology, anatomy, instrumentation, and physical principles necessary for the student to begin two-dimensional and M-mode ultrasound scanning of the normal heart. The laboratory component of Cardiac Ultrasound Imaging is designed for the student to practice applications of basic scanning techniques and protocols with emphasis on the normal heart.

### **DMS 206 Cardiac Ultrasound Clinic I**

3 Hours

Prerequisites: Acceptance into Diagnostic Medical Sonography Program. The student must have and maintain a current CPR certificate, a negative two-step TB test (or negative chest x-ray) and health insurance.

9 hours weekly (0-9)

This course is a supervised clinical experience, which will cover basic cardiac scanning techniques and protocols with emphasis on observation of two-dimensional and M-mode scanning of the normal heart. This course is designed for the student to observe applications of the principles and concepts taught in Cardiac Ultrasound Imaging and observe a functioning ultrasound department.

### **DMS 224 Cardiac Ultrasound Imaging/Lab II**

6 Hours

Prerequisites: DMS 104, DMS 202, DMS 204, DMS 206

8 hours weekly (4-4)

This course will cover the basic terminology, anatomy, instrumentation, and physical principles necessary for the student to begin color flow, cardiac Doppler, and two-dimensional and M-mode ultrasound scanning of the abnormal and normal heart. The laboratory component of Cardiac Ultrasound Imaging and Lab II will cover scanning techniques and protocols with emphasis on color flow, cardiac Doppler, and two-dimensional and M-mode ultrasound scanning of the abnormal heart. This course also provides the students the opportunity to practice scanning techniques and protocols. This course is taught with problem-based learning techniques.

**DMS 226 Cardiac Ultrasound Clinic II**

6 Hours

Prerequisites: DMS 104, DMS 202, DMS 204, DMS 206. The student must have and maintain a current CPR certificate, a negative two-step TB test (or negative chest x-ray) and health insurance. 18 hours weekly (0-18)

The clinical component of Cardiac Ultrasound Imaging II, this course is a supervised clinical experience which will cover cardiac scanning techniques and protocols with emphasis on color flow, cardiac Doppler, and two-dimensional and M-mode ultrasound scanning of the normal heart. This course is designed for the student to practice cardiac ultrasound techniques and observe a functioning ultrasound department.

**DMS 230 Cardiac Seminar**

2 Hours

Prerequisites: Concurrent enrollment with DMS 246  
2 hours weekly (2-0)

Advanced study of cardiac ultrasound physics and echocardiography in preparation for the certifying examinations. A review of case studies and "mock" examinations will help the student to focus on his/her individual problem areas. This is an Internet course.

**DMS 236 Cardiac Ultrasound Clinic III**

5 Hours

Prerequisites: DMS 200, DMS 224, DMS 226, a current CPR certificate, a negative two-step TB test (or negative chest x-ray) and health insurance  
15 hours weekly (0-15)

This course is a continuation of the clinical component of Cardiac Ultrasound Imaging II, and is a supervised clinical experience covering cardiac-scanning techniques and protocols with emphasis on two-dimensional, M-modes, color flow, and cardiac Doppler ultrasound scanning of the normal and abnormal heart. The course is designed for the students to practice cardiac ultrasound techniques and observe a functioning ultrasound department.

**DMS 246 Cardiac Ultrasound Clinic IV**

10 Hours

Prerequisites: DMS 236, a negative two-step TB test (or negative chest x-ray) and health insurance  
30 hours weekly (0-30)

The clinical component of Cardiac Ultrasound Imaging IV is a supervised clinical experience which will cover cardiac scanning techniques and protocols with emphasis on stress, transesophageal, intra-operative, and contrast echocardiograms, echo-guided maneuvers, and provocative measures utilized with echocardiograms.



## **Drafting Technology (DRT)**

### **DRT 181 Technical Drafting I**

4 Hours

Prerequisites: None

6 hours weekly (2-4)

This is a lecture-laboratory course designed to promote the basic technical skills involved in mechanical drafting. Geometric construction, orthographic projection, sections, auxiliary views, dimensioning, and tolerancing will be studied with the major emphasis on the fundamentals of orthographic projection.

### **DRT 185 Computer Graphics I**

2 Hours

Prerequisites: None

3 hours weekly (1-2)

This course is designed to provide the student with an introduction to the practical uses of computer graphics. The student will become familiar with using a CAD system. The lab will provide hands-on experience.

### **DRT 192 Blueprint Reading**

3 Hours

Prerequisites: None

3 hours weekly (3-0)

Fundamentals of blueprint reading as applied to the welding industry. Basic drafting principles are studied and applied to specific problems.

## **Early Childhood Education (ECE)**

### **ECE 120 Guiding Play and Learning**

3 Hours

Prerequisites: None

3 hours weekly (3-0)

This course focuses on play as an integral part of children's learning and healthy development. Students will learn how to promote children's social, emotional, physical, cognitive, language, as well as academic skills through play. It covers play theory and design of the learning environment. Students will learn how to promote prosocial behaviors through supportive relationships and environments with diverse settings and guide self-regulation, prosocial development and task engagement of children. Emphasis is placed on appropriate ways to guide children in their play activities and routines, and ways to develop creativity in children.

### **ECE 150 Infancy Development**

3 Hours

Prerequisites: None

3 hours weekly (3-0)

This course introduces students to the beginnings of human life including reproduction, conception, pregnancy stages, pregnancy difficulties, and quality infant and toddler child care. The study of child development theory, research, and implications for child care practices from birth to 36 months is a major focus of the course. Emphasis is also placed upon NAEYC's developmentally appropriate practices for infants and toddlers; and providing culturally sensitive care to diverse families.

### **ECE 151 Health, Safety, and Nutrition**

3 Hours

Prerequisites: None

3 hours weekly (3-0)

This course provides an overview of the health, safety, and nutritional needs of young children and early childhood practices to ensure children's well-being in group settings birth to age eight. Content includes roles and responsibilities of adults in meeting children's needs, healthy life style practices, childhood illnesses and injuries, meeting health, nutrition, and safety standards, and planning nutritionally appropriate meals. Information on program planning, curriculum, current issues, and parent education in regard to health and safety will also be discussed.

### **ECE 160 Child, Growth and Development**

#### **IAI – ECE 912**

3 Hours

Prerequisites: None

3 hours weekly (3-0)

This course is designed to acquaint students with theories and principles of development from preschool-middle childhood. At the end of the semester, the student should have developed an understanding of the physical, social, emotional, cognitive, and language development of children and ways in which adults can support and enhance their development. Theories discussed include Piaget, Erikson, Vygotsky, Watson, and others. Students are introduced to DCFS guidelines and NAEYC's developmentally appropriate practices. Students enrolled in ECE 160 receive practical experience, three hours per week, in Logan's Preschool.

### **ECE 161 Early Childhood Practicum**

1 Hour

Prerequisite: ECE 160, Minimum Grade: C or

Concurrent enrollment in ECE 160

2 hours weekly (0-2)

This course is designed to provide students with hands-on experience in working with young children. Students will engage in the practical application of child development knowledge and professional teaching practices with infants, toddlers and preschool children in the JALC Preschool or another approved early childhood facility. The student will work with young children three hours per week under the direct supervision of a qualified professional. The college instructor will coordinate the learning experience, including performance assessments.

### **ECE 171 Family Child Care Practicum**

1 hour

Prerequisites: ECE 140, Minimum Grade: C

ECE 151, Minimum Grade: C

ECE 160, Minimum Grade: C

2 hours weekly (2-1)

In this course students will receive hands-on experience working with children in a home setting as well as a center based child care setting. Students will compare and contrast these two different child care settings. Students will engage in the practical application of child development knowledge and professional teaching practices with multi-age groups. The student will work with children two hours per week under the direct supervision of a qualified professional. The college instructor will coordinate the learning experience, including performance assessments. Fifty percent of this lab time must occur in a licensed

family child care home and 50% of this lab time must occur in a licensed child care center. This course will fulfill the practicum experience requirements for the Illinois Gateways to Opportunity, Family Child Care Credential.

### **ECE 220 Infant Toddler Curriculum**

3 Hours

Prerequisite: None

3 hours weekly (3-0)

This course is designed to provide students with the knowledge and skills for planning and implementing developmentally appropriate curriculum for children birth to three years. The importance of high quality infant toddler care environments will be discussed to include: room arrangement, activities and materials, daily routines, transactions, health and safety, promoting nurturing relationships and learning through play. Emphasis will be placed upon meeting the needs of the whole child (physical, social, emotional, language and cognitive), assessment and documentation and developing positive relationships with diverse families.

### **ECE 240 Observation and Assessment**

3 Hours

Prerequisites: None

3 hours weekly (3-0)

This course is designed to demonstrate to the student how to do authentic, alternative, classroom-based assessment on young children. It will further provide the student with the knowledge and skills to interpret and use the information gained to plan curriculum that is responsive to and supportive of children's learning and development. Students will have the opportunity to engage in assessment processes through means of classroom observations, providing each student with a stronger understanding of child development

skills. Students will take responsibility for using a variety of age, developmentally, linguistically, and culturally appropriate formal and informal assessments to gather and share information on each child's skills, abilities, interests, and needs, birth through age eight.

### **ECE 245 The Exceptional Child**

#### **IAI-ECE 913**

3 Hours

Prerequisites: PSY 132 and PSY 262

3 hours weekly (3-0)

This survey course provides an overview of educational and evidence-based strategies supporting children with exceptional cognitive, social, physical, and emotional needs. Identification, intervention strategies, methods, and programs to meet the needs of children are presented. Study of applicable federal and state laws and requirements conducted, including: Individuals with Disabilities Education Act, Individualized Family Service Plan, Individualized Education Programs, and inclusive programming. Fulfills requirements of School Code 25.25.

### **ECE 260 Child, Family & Community Relations**

#### **IAI-ECE 915**

3 Hours

Prerequisites: None

3 hours weekly (3-0)

This course is designed to provide students with the knowledge and skills needed to work successfully with families and parent groups in individual, group, school and community settings. The focus will be on strengthening adult-child relationships and parent staff relationships in home, school and community. Settings. An awareness of strategies in developing positive and supportive

relationships with families of young children with special needs, including the legal and philosophical basis for family participation; family-centered services; and strategies for working with socially, culturally and linguistically diverse families will be included. Family involvement in early childhood programs and parent education will be stressed.

### **ECE 265 Early Childhood Curriculum**

3 Hours

Prerequisites: None

5 hours weekly (3-0)

This course teaches the principles involved in planning, implementing and evaluating developmentally appropriate curriculum for young children. The course focuses on relationships among developmental theory, philosophy and reflective practice. Development of curriculum based on the individual needs and interests of young children and the analysis of a wide range of early childhood curriculum models is emphasized. Course content also includes writing lesson plans, classroom management, observing and documenting the child's progress and meeting Illinois Learning Standards.

### **ECE 266 Preschool Administration**

3 Hours

Prerequisites: ECE 150, 160, 265, 267

3 hours weekly (3-0)

This course is an orientation to supervisory and administrative operations of early childhood programs to include center-based and family child care homes. Consideration is given to promoting high quality care and education to young children and adhering to professional standards and legal guidelines. Course topics will include administrative duties, responsibilities, and concerns/issues involved in

owning or running a child care business such as staffing, public relations, equipment, funding, parent-staff communication/relationships, curriculum, policies, state/federal laws, recording keeping, technology, and other related topics. Community needs, services and resources available to support early childhood programs and families will also be discussed.

### **ECE 267 Child Care Laboratory I**

5 Hours

Prerequisites: ECE 150, 160, 265

15 hours weekly (0-15)

This course involves actual work experience with young children that will give the student an opportunity to apply knowledge of child development theory and principles of developmentally appropriate care and education. The student will assist the supervising teacher with guiding children, implementing activities, and maintaining a healthy, safe, attractive, and stimulating learning environment.

Note: Combined enrollment of ECE 267 and 268 will not exceed 22 students.

### **ECE 268 Child Care Laboratory II**

5 Hours

Prerequisites: ECE 267

15 hours weekly (0-15)

This course will provide the student with additional work experience with children in an early childhood setting. The student is expected to gradually take more initiative in assisting the supervising teacher in the classroom. The experience will include observing and analyzing children's behavior; planning and implementing developmentally appropriate activities/ lessons; using positive discipline techniques; maintaining a healthy,

safe, attractive, and stimulating classroom; and helping children to develop their potential socially, emotionally, physically, and intellectually.

### **ECE 272 Language and Literacy Development**

3 Hours

Prerequisites: None

3 hours weekly (3-0)

This course is a study of language and literacy development beginning in infancy and progressing through the primary years. Emphasis will be placed on promoting family literacy, approaches to reading and writing instruction, application of research to practice, and evaluation of commercialized instructional programs. Students will be introduced to elementary school reading programs, reading problems, and remediation concerns.

### **ECE 279 Management Internship**

4 Hours

Prerequisites: Career Early Childhood Education

AAS Degree

20 hours weekly (0-20)

This course will provide students with advance management experience in an early childhood facility selected by the College to meet Illinois Director Credential requirements. The student will work in the facility 300 contact hours (20 hrs. per wk). This experience will primarily involve job shadowing a seasoned program administrator, interviewing, performing tasks assigned by the administrator/site supervisor; as well as completing projects assigned by the College instructor.

## **ECE 280 Professional Development**

4 Hours

Prerequisites: Early Childhood Education AAS  
Degree

8 hours weekly

This course was designed to assist students in fulfilling the professional contribution component of the Illinois Director's Credential (IDC). The IDC requires students to demonstrate professional commitment and leadership in the field of early childhood education through active engagement in professional endeavors beyond the scope of daily management of a center. The course instructor will provide support, supervision and guidance as students explore professional development opportunities, develop their plans, and engage in professional activities. Course requirements will be met via independent study and approved field experiences.

## **Economics (ECO)**

### **ECO 201 Introduction to Macroeconomics**

IAI – S3 901

3 Hours

Prerequisites: None

3 hours weekly (3-0)

This introductory course emphasizes macroeconomic theory and application. Major topics include basic economic principles; capitalism vs. socialism; supply and demand analysis; resource allocation; evaluation of the major macroeconomic problems; inflation and deflation; employment and unemployment; national income accounting and theories; economic roles of households, business, government, and foreign sector; the business cycle including economic fluctuations, stability and growth; Classical, Keynesian, and monetarist economic theories, fiscal policy, monetary policy; money and banking, international economics and the world economy.

international economics and the world economy.

### **ECO 202 Introduction to Microeconomics**

IAI – S3 902

3 Hours

Prerequisites: None

3 hours weekly (3-0)

This introductory course emphasizes microeconomic theory and application. Major topics include basic economic principles; capitalism vs. socialism; supply and demand analysis; resource allocation; behavior of the consumer; price theories including price and output determination, and the behavior of the firm under varying market structures; monopoly problems, including antitrust and regulation; factor markets with emphasis on the labor market; income distribution and poverty;

## Education (EDC)

### **EDC 200 Introduction to Education**

3 Hours

Prerequisites: None

4 hours weekly (2-2)

EDC 200 provides a comprehensive overview of American education and the teaching profession. The course examines the theoretical and philosophical basis of American education, school governance, curriculum, financing, legal, ethical and professional issues in education. Students are introduced to the spectrum of student diversity; the assets individual students bring to learning across the curriculum, and the influence social, economic, cultural, and linguistic experiences have in developing a learning community in which individual differences are respected and meaningful learning opportunities are created for all students.

*Students may be required to pass a background check in order to fulfill classroom observation requirements.*

### **EDC 202 Human Growth, Development, &**

#### **Learning**

3 Hours

Prerequisites: PSY 132 with a grade of "C" or higher

4 hours weekly (2-2)

This course is an overview of human growth, development and learning from conception through the adult lifespan. Major areas of human development, including physical, social, emotional, and cognitive, and the interaction among these areas, are considered. This course will examine theoretical and research-based understandings of principles of human development as well as dynamics of human behavior and social relations. Multicultural and pluralistic topics affecting development, including characteristics and concerns between and within diverse groups nationally and internationally are explored.

*Students may be required to pass a background check in order to fulfill classroom observation requirements.*

### **EDC 203 Schooling in a Diverse Society**

3 Hours

Prerequisites: None

3 hours weekly (3-0)

This course is an overview of American education as both a professional and a public enterprise. Social, historical, and philosophical foundations are considered to give perspective to current issues, policies,



and trends in the field of education. The course will examine how schooling is shaped by the social contexts in which it occurs, particularly in multicultural and global contexts.

*Students may be required to pass a background check in order to fulfill classroom observation requirements.*

### **EDC 208 Introduction to Special Education**

3 Hours

Prerequisites: EDC 202

3 hours weekly (3-0)

This introductory course provides a broad overview of the education, needs, and characteristics of exceptional people, including relevant terminology, strategies, and issues commonly encountered. The course will also address Council for Exceptional Children (CEC) and Illinois Professional Teaching Standards (IPTS) for the preparation of special education professionals. The relationship with and role of related fields will also be explored.

Using a multi-disciplinary approach covering the life span of students with disabilities, the course begins with the basic concepts, history, and legislation, followed by the individual areas of exceptionality within a social systems perspective. Specific focus will be placed on terminology, etiology, identification, assessment, treatment, and social issues/concerns.

*Students may be required to pass a background check in order to fulfill classroom observation requirements.*

### **EDC 210 Regular Education Observation**

1 Hour

Prerequisites: 30 hours of successful coursework (20 at John A. Logan College); or consent of instructor; comprehensive GPA of 2.75

2 hours weekly (0-2)

This course is designed to introduce education students to the learning/teaching environment. The field observation experience is related to concepts introduced in program coursework. Activities are assigned so that students are directed through a sequence of planning, implementation, and reflection. In addition, various activities are given by the cooperating teacher to familiarize students with various roles of the teacher.

*Students may be required to pass a background check in order to fulfill classroom observation requirements.*

### **EDC 211 Special Education Observation**

3.5 Hours

Prerequisites: 30 hours of successful coursework (20 at John A. Logan College); or consent of instructor; comprehensive GPA of 2.75

7 hours weekly (0-7)

This course is designed to enable special education majors to obtain field experiences. The field observation experience is related to concepts introduced in program coursework. Activities are assigned so that students are directed through a sequence of planning, implementation, and reflection. This course requires 100 hours of supervised clinical experience.

*Students may be required to pass a background check in order to fulfill classroom observation requirements.*

### **EDC 212 Paraprofessional/Practicum**

3 Hours

Prerequisites: Students must have completed at least 30 credit hours or obtain permission of the instructor.

6 hours weekly (6-0)

This course is designed for people working as paraprofessionals in educational settings and for people who desire to work in educational settings in paraprofessional roles. A student who is already working in an education setting may use that setting for the practicum provided that individual arrangements are agreed upon by the instructor, supervising teacher and student. Students may be required to pass a background check in order to fulfill classroom observation requirements.

## Electronics (ELT)

### **6ELT 100S DC/AC Supplemental Instruction**

2 Hours

Prerequisites: Concurrent enrollment in ELT 102 or ELT 111

2 hours weekly (2-0)

This course is designed to provide both group and individual supplemental instruction. The purpose is to provide additional opportunity for student success in the Electronics program.

*This is a skill building course and is not used to calculate GPA at John A. Logan College. In addition, it will not transfer.*

### **ELT 102 Basic Electricity and Wiring**

4 Hours

Prerequisites: None

6 hours weekly (2-4)

This course is designed to give students a basic understanding of industrial electricity and power systems to include industrial control circuits.

### **ELT 103 Applied DC/AC Circuits**

4 Hours

Prerequisites: ELT 102

6 hours weekly (2-4)

This course is designed to introduce the student to applied DC/AC circuits. DC topics will include the study of Superposition Theorem, filters, Voltage dividers. AC circuit analysis will include sinusoidal sources, RMS calculations, resonant circuits, capacitive and inductive time constants, series and parallel resonance, and transformers will be covered. Students will use the theory learned in the classroom to design and construct circuits in the laboratory,

computer simulation software will also be used. Test equipment will be used to take measurements and to perform basic trouble.

### **ELT 104 Introduction to VFDs**

2 Hours

Prerequisites: ELT 102 with a grade of "C" or higher

3 hours weekly (1-2)

This course will introduce the student to variable frequency drive through theory and hands-on labs. The topics will include variable frequency drive safety, operation, setup, programming basic wiring and troubleshooting.

### **ELT 111 Digital Electronics I**

3 Hours

Prerequisites: None

8 hours weekly (2-2)

This course will introduce students to basic digital technology. Number systems and basic and complex gate systems will be covered. Digital systems will be analyzed using techniques of Boolean algebra and Karnaugh mapping.

### **ELT 112 Digital Electronics II**

3 Hours

Prerequisites: ELT 111 with a grade of "C" or higher

4 hours weekly (2-2)

This course continues the study of digital electronics technology through combinational and sequential logic systems, troubleshooting and advanced design techniques. The theory of operation of sequential logic circuitry that uses shift registers and counters will be explored. Hands-on labs will support the theories introduced in this course.

### **ELT 150 Applied Solid State Electronics**

3 Hours

Prerequisites: ELT 102

4 hours weekly (2-2)

This course is designed to introduce the student to solid state devices, controls, and their applications. Basic theory of operation and troubleshooting practices will be introduced using meters and the oscilloscopes. Some of the devices covered will include diodes, transistor amplifiers, thyristors, and operational amplifiers.

### **ELT 151 Applied Solid State Circuits**

3 Hours

Prerequisites: ELT 150

4 hours weekly (2-2)

This course is designed to introduce the student to applied solid-state circuits. Topics include the AC analysis transistor amplifier. Op amps integrators and differentiators, and active filters. Students will use the theory learned in the classroom to design and construct circuits in the laboratory.

### **ELT 170 Biomedical Instrumentation I**

3 Hours

Prerequisites: ELT 102 and ELT 111 both with a grade of "C" or higher

4 hours weekly (2-2)

This course is one of three courses in a sequence that covers biomedical instrumentation and regulations. This course will cover safety, regulations, and monitoring systems.

### **ELT 200 Introduction to Microprocessors**

3 Hours

Prerequisites: ELT 102, ELT 111

4 hours weekly (2-2)

The instruction, demonstration, and practice of beginning machine language programming of the Motorola 68000 microprocessor to be followed by an introduction to basic interfacing techniques.

### **ELT 210 A+ Preparation Essentials**

3 Hours

Prerequisites: None

4 hours weekly (2-2)

CompTIA A+ Essentials validates knowledge of basic computer hardware and software systems, covering skills such as installation, building, upgrading, repairing, configuring, troubleshooting, and preventive maintenance, along with elements of security and soft skills. The Essentials Exam validates the basic skills needed by any entry-level service technician regardless of job environment.

### **ELT 214 A+ Preparation IT Technician**

3 Hours

Prerequisites: None

4 hours weekly (2-2)

The CompTIA A+ Technician (220-602) exam is targeted for individuals who intend to work in a mobile or corporate technical environment with a high level of face-to-face client interaction. The CompTIA IT Technician (220-602) is for the candidate who has already passed the CompTIA A+ Essentials examination. Candidates who pass both the CompTIA A+ Essential and exam 220-602 will be CompTIA A+ certified with the IT Technician designation.

### **ELT 215 IOT and Embedded Systems**

3 Hours

Prerequisites: ELT 102 and ELT 111 both with a grade of "C" or higher

4 hours weekly (2-2)

This course examines current micro-controller and SOC (system on a chip) hardware as embedded systems including current applications of hardware and software in the Internet of Things (IOT). Specific low-cost consumer micro-controllers and modern applications of the technology are examined, including various software and hardware interfacing.

### **ELT 218 Introduction to Network Technologies**

3 Hours

Prerequisites: None

4 hours weekly (2-2)

This course is designed to allow students to obtain the skills necessary to work as an entry level network technician. The course is vendor neutral and allows the student to gain experience in network installation and administration. The successful student will be prepared to take the CompTIA Net + exam.

### **ELT 220 Linear Integrated Circuits**

3 Hours

Prerequisites: ELT 151

4 hours weekly (2-2)

This course will introduce the student to applications of various devices covered in digital and solid states, such as switching and sensing devices. Various industrial power systems and equipment, such as load centers and motor and control circuits, will be covered.

### **ELT 224 Power Distribution and Motors**

3 Hours

Prerequisites: ELT 102 or consent of instructor

4 hours weekly (2-2)

This course will be concerned with power distribution systems and motor loads. Both three phase and single phase will be discussed.

### **ELT 243 Renewable Energy Systems**

3 Hours

Prerequisites: ELT 102 or HAC 102 with a minimum grade of "C"

4 hours weekly (2-2)

Students will develop knowledge in the solar energy technologies field. They will learn the various types of solar systems and how to set up a solar energy system. Also general maintenance and cost calculations will be covered.

### **ELT 250 Biomedical Instrumentation II**

3 Hours

Prerequisites: ELT 102 with a minimum grade of "C"

ELT 111 with a minimum grade of "C"

4 hours weekly (2-2)

This course is one of three in a sequence that covers biomedical instrumentation and regulations. This course covers laboratory, life support, portable, and therapeutic equipment.

### **ELT 270 Introduction to Smart Grid**

3 Hours

Prerequisites: ELT 102 or HAC 102 with a minimum grade of "C"

4 hours weekly (2-2)

This course will explore smart grid technology and how it applies to today's industries. The use of smart grid technology can help residential and commercial individuals to be more aware of their energy usage. Topics covered in this course will include: safety, traditional grid construction and operation, Smart grid operation, Smart grid communications, retrofits that may enhance energy management effectiveness for smart grid users & an overview of green energy systems building codes and compliance requirements. Also included will be hands-on labs that will allow the student to gain experience using today's industry hardware.

### **ELT 280 Biomedical Instrumentation III**

3 Hours

Prerequisites: ELT 250 with a grade of "C" or higher

4 hours weekly (2-2)

This course is a continuation of Biomedical Instrumentation I and II and covers operating room equipment, diagnostic imaging equipment, medical specific test equipment and healthcare information technology for technicians.

## **Emergency Medical Services (EMS)**

### **EMS 248 Emergency Medical Responder**

4 hours

Prerequisite: None

5 hours weekly (3-2)

This course is an introduction to the Emergency Management Services programs. Students will participate in patient assessment education and evaluation.

### **EMS 250 Paramedic I**

12 Hours

Prerequisites: EMT 111 or equivalent, ALH 101 or valid CPR-Healthcare Provider Card

14 hours weekly (10-4)

This course expands on the basic EMT level material in the areas of medical, legal, moral, and ethical responsibilities, and human anatomy and physiology. Patient assessment will be comprehensive and evoke critical thinking concepts. Anatomy and physiology will be covered in preparation for EMS 251. Students must meet all health requirements to participate in clinical and internship activities.

### **EMS 251 Paramedic II**

9 Hours

Prerequisites: EMS 250, ALH 101 or valid CPR-Healthcare Provider Card, current Illinois EMT-Basic or EMT-Intermediate

11 hours weekly (7-4)

This course introduces students to the anatomy and physiology of the cardiovascular system, emphasizing the structure, function, and electrical conduction system of the heart, and the pathophysiology and emergency management of the cardiovascular system. The student will study the EKG interpretation and

treatment of various arrhythmias and specific treatment techniques, including CPR, EKG, monitoring, defibrillation and cardioversion. The student will also study and show proficiency in advanced airway techniques and demonstrate an understanding of pharmacology and medications administered by the paramedic.

### **EMS 251A Paramedic II Clinical**

3 hours

Prerequisite: A valid CPR Healthcare Provider Card, current Illinois EMT-Basic, EMS 250 and concurrently enrolled in EMS 251.

12 hours weekly (0-12)

This course is designed to present the expected medical objectives of EMS 251 in a supervised work environment. This course will also expose the student to patient care skills they will utilize while working as a paramedic, under appropriate supervision.

### **EMS 252 Paramedic III**

9 Hours

Prerequisites: EMS 250 and EMS 251, valid CPR-Healthcare Provider Card, current Illinois EMT-Basic or EMT-Intermediate

11 hours weekly (7-4)

This course is a continuation of EMS 251 covering advanced body systems. The student will first learn the management of hemorrhage in the patient followed by shock and its effects on body systems, and how the nervous system relates to trauma and medical emergencies. The student will also explore additional body systems including endocrine, gastrointestinal, and integumentary.

**EMS 252 A Paramedic III Clinical**

3 Hours

Prerequisite: Prerequisite: EMT 111, ALH 101, EMS 250, EMS 251, EMS 251A, or equivalents. Concurrent enrollment in EMS 252.

This course is designed to present the expected medical objectives of EMS 252 in a supervised work environment. This course will also expose the student to patient care skills they will utilize while working as a paramedic, under appropriate supervision.

**EMS 253 Paramedic IV**

9 Hours

Prerequisites: ALH 101, EMS 252, EMS 252A

11 hours weekly (7-4)

This course is a continuation of EMS 252 that will expand into specific types of patients and special circumstances in EMS. Students will learn about hematology, infectious diseases, patients with behavioral and/or psychiatric disorders, physical disabilities, pediatrics, and geriatrics, with special emphasis on personal safety and patient care. Students will also learn techniques of emergency childbirth, be able to identify obstetrical emergencies, respond to hazardous emergencies and explain the incident command system.

**EMS 253 A Paramedic IV Internship**

3 Hours

Prerequisite: EMT 111, ALH 101, EMS 250, EMS 251, EMS 251A, EMS 252, EMS 252A or equivalents. Concurrent enrollment in EMS 253

12 hours weekly (0-12)

This course is designed to present the expected medical objectives of EMS 253 in a supervised work environment. This course will also expose the student to patient care skills they will utilize

while working as a paramedic, under appropriate supervision.

**EMS 255 Paramedic Professional Development**

0.5-4.0 Hours

Pre-requisite: EMS 251, EMT 114 or equivalent

Hours weekly: Variable

This course is designed to meet professional development requirements for existing EMT Intermediates and Paramedics. All topics in the paramedic courses will be presented during the course.



## **Emergency Medical Technician (EMT)**

### **EMT 111 Emergency Medical Technician I**

12 Hours

Prerequisites: 18 years of age, H. S. diploma or equivalency. ALH 101, student must possess valid CPR-Healthcare Provider Card certification prior to the end of the EMT 111 course.

16 hours weekly (8-8)

This course is designed to provide the student with techniques of emergency care and transportation of the sick and injured. Emphasis is also placed on the legal and ethical responsibilities of the EMT, anatomy and physiology of the human body, resuscitation and defibrillation, techniques of using emergency equipment, and incident management.

### **EMT 114 EMT Professional Development**

0.5-4.0 hours

Prerequisite: EMT 111 or equivalent

Hours weekly: Variable

This course is designed to meet professional development requirements for existing EMT's. All topics affiliated with the EMT curriculum will be presented during this course.

## **Engineering Graphics (EGR)**

### **EGR 101 Engineering Graphics**

IAI – EGR 941

3 Hours

Prerequisites: None

5 hours weekly (2-3)

This course is designed primarily as an introduction to engineering design and graphics. Topics covered include: design problems, sketching, dimensioning, tolerancing, multi-view presentation, auxiliary views, sections views and working drawings. Students will design, build and present a project involving problem solving skills learned throughout the course.

## English as a Second Language (LIN)

### **LIN 101 English Composition I for International Students**

3 Hours

Prerequisites: TOEFEL score of 520 + and concurrent enrollment in LIN 104

3 hours weekly (3-0)

Non-native speakers of English learn to write effective expository prose, focusing on particular second-language problems. The course emphasizes the use of standard English and appropriate sentence structures in unified, developed, and coherent paragraphs and essays. Writing assignments are based on assigned readings and require various patterns of development as students learn the writing process. The course also includes an introduction to research skills and research writing. This course is equivalent to ENG 101.

### **LIN 102 English Composition II for International Students**

3 Hours

Prerequisites: LIN 101 and LIN 104

3 hours weekly (3-0)

Non-native speakers of English further develop skills in writing expository prose. LIN 102 is literature-based and includes documented research analysis of at least one of the literary genres (poetry, drama, or fiction). This course is equivalent to ENG 102.

### **LIN 104 Grammar for International Students**

2 Hours

Prerequisites: TOEFEL score of 520+ and concurrent enrollment in LIN 101

2 hours weekly (2-0)

This course is an intensive review of English sentence structure and punctuation for non-native speakers. Students study the system of the English language and the rules that operate within that system. Since the course is taken concurrently with LIN 101, students have practical opportunities to apply their developing grammatical skills as they edit essays.

*This is a developmental course which is used to calculate GPA at John A. Logan College, but does not transfer.*

## English (ENG)

### ENG 050 Basic Reading & Writing

5 Hours

Prerequisites: None

5 hours weekly (5-0)

This course introduces students to reading and writing skills necessary for success in college. Students learn to understand and remember better what they read. Writing assignments require them to engage in a process of planning, drafting, revising, and editing. Editing skills (grammar, punctuation, and spelling) are emphasized throughout the semester.

*This is a developmental course which is used to calculate GPA at John A. Logan College, but does not transfer.*

### ENG 052 Developmental Writing Skills

5 Hours

Prerequisites: None

5 hours weekly (5-0)

Developmental writing enables students to gain confidence in their writing ability through journal writing, reacting to personal reading, and writing for a variety of purposes. Students also develop peer-revising skills that enable them to recognize strengths and weaknesses in their own and others' writings. While this course is not designed for transfer, it prepares students to succeed in English 101 and assists them in developing the communication skills they will need in their chosen occupational field. Students must earn a grade of "C" or higher in order to progress to ENG 101.

*This is a developmental course which is used to calculate GPA at John A. Logan College, but does not transfer.*

### ENG 053 Developmental Reading Skills

3 Hours

Prerequisites: None

3 hours weekly (3-0)

This is a "slice of college life" approach which involves students in a lively and immediate application of the reading process. Students will learn previewing, underlining/highlighting, marginal note taking, locating and defining key concepts, mapping, and summarizing. In addition, students will learn to manage time, to take effective classroom notes, and to prepare for and take objective and essay examinations. The course will be devoted to the direct application of these strategies to content area materials.

*This is a developmental course which is used to calculate GPA at John A. Logan College, but does not transfer.*

### ENG 055 Composition Literacy

3 Hours

Co-Requisite: Concurrent Enrollment in ENG 101

3 hours weekly (3-0)

Co-requisite sections of Composition Literacy enable students to gain confidence in their writing ability through journal writing, reacting to personal reading, and writing for a variety of purposes. Students also develop peer-revising skills that enable them to recognize strengths and weaknesses in their own and others' writings. Additionally, students benefit from writing workshops and one-on-one teaching meant to promote successful completion of a concurrent section of ENG 101. Students must earn a grade of "C" or higher in both ENG 055 and ENG 101 to progress to ENG 102.

### **ENG 101 English Composition I**

IAI – C1 900

3 Hours

**Mandatory Testing:** Prerequisite scores on Accuplacer Exam: Reading Comprehension 70 plus Sentence Skills 75 or higher OR combined score of 150 or higher.

**OR**

ACT score of 20 or higher in English and Reading

**OR**

SAT: Evidence-based reading and writing  $\geq$  480

Prerequisites: **OR** ENG 052 (grade of “C” or higher)

3 hours weekly (3-0)

The primary objective of English 101 is to write effective expository prose. ENG 101 emphasizes the use of standard English and appropriate sentence structures in unified, developed, and coherent paragraphs and essays. Writing assignments require various rhetorical modes as students learn the process of writing. The course also includes an introduction to research skills and research writing.

### **ENG 102 English Composition II**

IAI – C1 901R

3 Hours

Prerequisites: ENG 101 or ENG 113 (either with a grade of “C” or higher)

3 hours weekly (3-0)

In this course students further develop skills in writing expository prose. English 102 is a research writing course. Assignments include documented, multi-source writing in one or two papers for a combined total of at least 2,500 words in the final, graded version(s).

### **ENG 103 Creative Writing**

3 Hours

Prerequisites: ENG 101

3 hours weekly (3-0)

In this course, students release as much imagination and craft on paper as possible by means of fictional and non-fictional sketch and exercise essays. The emphasis is on exercise. We will strive with the time and ability at our disposal to do the best work possible.

*This course is also offered as part of a study abroad program. Contact the International Education Coordinator for more information.*

### **ENG 113 Professional Technical Writing**

IAI-C1 900R

3 Hours

Prerequisite: None

3 hours weekly (3-0)

Technical writing is a composition course especially for engineering, science, social science, and vocational-technical students. Encompassing many different approaches to solving specific communication problems and emphasizing critical thinking skills, this course covers the written communication required in a job situation in the technical fields.

## **French (FRE)**

### **FRE 101 Elementary French I**

4 Hours

Prerequisites: None

4 hours weekly (4-0)

Emphasis on conversation with vocabulary building, grammar rules, and pronunciation practice. Language laboratory is required.

### **FRE 102 Elementary French II**

4 Hours

Prerequisites: FRE 101 or consent of instructor

4 hours weekly (4-0)

Continuation of FRE 101 with new vocabulary, reading of French prose, oral practice, and writing. The grammatical structures of the language will be studied, expanding to past tenses and the subjunctive. Language laboratory is required.

### **FRE 201 Intermediate French I**

4 Hours

Prerequisites: FRE 102 or consent of instructor

4 hours weekly (4-0)

Review and application of essential principles of French grammar structure and training in idiomatic usage through oral and written exercises; intensive practice of spoken language; reading of French literature with emphasis on French culture and civilization; required language laboratory assignments.

### **FRE 202 Intermediate French II**

IAI – HI 900

4 Hours

Prerequisites: FRE 201 or consent of instructor

4 hours weekly (4-0)

Continuation of FRE 201 with summary of grammatical aspects of the language; refining conversation skills; strong emphasis on enhanced writing skills; and rapid reading of representational French language prose, arts, and cultures. In addition, composition writing and an oral exam will be part of the course. Language laboratory is required.

## Geography (GEO)

### **GEO 112 Regional Geography**

IAI – S4 900N

3 Hours

Prerequisites: None

3 hours weekly (3-0)

An introduction to regional geography is an attempt to study and use geographic concepts and structures in relation to specific regions and countries. Focus is on key countries in the seven continents of the world.

***GEO 215 Environmental Biology: SEE SCI 215 Environmental Biology. Prefix change effective Fall 2018. Course content is the same.***

### **GEO 216 American Regional Geography**

3 Hours

Prerequisites: None

3 hours weekly (3-0)

Study of contemporary world cultures and the interrelationships with geographic structure and regions. Includes human origins and distribution, population, migration, health, climate, culture, language, settlements, industry, and agriculture.

*This course is also offered as part of a study abroad program. Contact the International Education Coordinator for more information*

## German (GER)

### GER 101 Elementary German

4 Hours

Prerequisites: None

4 hours weekly (4-0)

Emphasis on grammar, vocabulary, pronunciation, and composition. Language laboratory is required.

*This course is also offered as part of a study abroad program. Contact the International Education Coordinator for more information.*

### GER 102 Elementary German

4 Hours

Prerequisites: GER 101 or consent of instructor

4 hours weekly (4-0)

Continuation of GER 101 with new vocabulary, reading of German prose, oral practice, and writing. The grammatical structures of the language will be studied, expanding to past tenses and the subjunctive. Language laboratory is required.

### GER 201 Intermediate German

4 Hours

Prerequisites: GER 102 or consent of instructor

4 hours weekly (4-0)

Review and application of essential principles of German grammar structure and training in idiomatic usage through oral and written exercises; intensive practice of spoken language; reading of German literature with emphasis on cultural aspects of the German-speaking world, arts, and civilizations. In addition, an oral exam will be part of the course. Language Laboratory is required.

### GER 202 Intermediate German

IAI – HI 900

4 Hours

Prerequisites: GER 201 or consent of instructor

4 hours weekly (4-0)

Continuation of GER 201 with summary of grammatical aspects of the language; refining conversational skills; strong emphasis on enhanced writing skills; and rapid reading of representational German language prose, arts, and cultures. In addition, composition writing and an oral exam will be part of the course. Language laboratory is required.



## **Graphics Design (GRD)**

### **GRD 110 Graphics Design I**

5 Hours

Prerequisites: None

8 hours weekly (2-6)

Study of basic design principles related to business and the advertising industry. Individual projects will include problems in typography, logo designs, corporate identity systems, and business forms using traditional tools and computer graphics software. Windows-based computers will be used in conjunction with Adobe Photoshop, InDesign, and Illustrator software.

### **GRD 120 Graphics Design II**

5 Hours

Prerequisites: GRD 110 Graphics Design I or consent of instructor

8 hours weekly (2-6)

Study of the fundamentals of advertising design. Students continue with advanced studies of design principles, research and formats, layout, and create advertising and editorial designs for magazines and books. Windows-based computers will be used in conjunction with Photoshop Illustrator, and Adobe Acrobat.

### **GRD 210 Graphics Design III**

5 Hours

Prerequisites: GRD 120 Graphics Design II or consent of instructor

8 hours weekly (2-6)

Study of multimedia and includes focus areas such as presentation, animation, marketing, video/DVD composition, instructional design, print technology, typography, and photographic

design. Windows-based computers will be used in conjunction with Photoshop.

### **GRD 220 Animation**

3 Hours

Prerequisites: None

5 hours weekly (1-4)

Study of animation principles related to the movie and TV advertising industry. Individual projects will include composition, time and space, layering, masking, special effects, and lighting. Windows based computers will be used in conjunction with other effects software.

### **GRD 230 Video Production**

3 Hours

Prerequisites: None

5 hours weekly (1-4)

Study of basic skills and terms involved in television production. Projects will include set-up, lighting, gathering audio and recording video for corporate production, news, short-films and commercials. Windows based computers will be used in conjunction with Adobe Premiere and other effects software.

## Health (HTH)

### **HTH 100 Human Nutrition**

3 hours

Prerequisite: None

3 hours weekly (3-0)

This course is an introductory course in human nutrition. It will focus on the basic understanding of nutrition and its impact on health. Students will be introduced to the basic nutrients, their uses and functions in the body, and their sources. Nutrition throughout the lifespan will be discussed. Current topics and trends in nutrition will be discussed, including strategies to promote healthy eating choices.

### **HTH 110 Health Education**

2 Hours

Prerequisites: None

2 hours weekly (2-0)

Designed to provide a sound knowledge of health in order to favorably influence the student's attitudes, habits, and practices pertaining to the physical, mental, social, and emotional environments. This is a course in critical decision making for personal health and lifestyle choices.

### **HTH 120 Human Sexuality**

3 Hours

Prerequisites: None

3 hours weekly (3-0)

The course provides a comprehensive introduction to the biological, psychological, social, historical, and cultural aspects of human sexuality. Course design encourages students to better understand their own sexuality, to increase students' awareness of sexuality throughout the life cycle, to describe human

sexuality in precise and objective language, to learn to make responsible sexual decisions, to become aware of issues in the area of sexual health, and to enhance students' understanding of sexual intimacy.

### **HTH 135 Drug Abuse & Alcohol Education**

2 Hours

Prerequisites: None

2 hours weekly (2-0)

This course is designed to provide students with an understanding of drug use in our society. This course will increase the student's awareness of alternatives to drug use and increase decision making skills.

### **HTH 150 Stress and Its Management**

3 Hours

Prerequisites: None

3 hours weekly (3-0)

This course provides a comprehensive introduction to stress and its management as it integrates the mental, emotional, physical, social, and spiritual aspects of well-being. It emphasizes theoretical concepts regarding the causes of stress, symptoms stress can produce, and practical methods utilized to deal with each. Emphasis is placed on the students' identification of particular stressors in their daily lives and the practical application of stress management techniques that work best for them.

### **HTH 250 Wellness for Women**

3 Hours

Prerequisites: None

3 hours weekly (3-0)

Over the last 25 years, there has been a growing interest in the unique health issues of women.

The feminine life cycle is a new field of study. The course is intended to provide a comprehensive study of the physical, emotional, spiritual, and social wellness areas for women. Men as well as women can benefit from the information provided in this course.

## **Health Information Technology (HIT)**

### **HIT 206 Medical Insurance and Billing Procedures**

3 Hours

Prerequisites: None

3 hours weekly (3-0)

This course provides a study of the claim forms and billing guidelines set forth by major health insurance companies, Medicare, Medicaid, Workman's Compensation and military health funds.

### **HIT 217 Medical Terminology**

3 Hours

Prerequisites: None

3 hours weekly (3-0)

This is an introduction to medical terminology which includes word building principles; basic anatomy and physiology; key anatomical and physiological terms; combining forms, suffixes, and prefixes. In addition, students will learn how to listen critically for important terms, respond to others using medical terminology, and generate their own terminology-rich writing and speech.

## **Heating and Air Conditioning (HAC)**

### **HAC 102 Residential Electrical Wiring**

4 Hours

Prerequisites: None

6 hours weekly (2-4)

The students will be introduced to basic residential wiring practices used in modern electrical installations. The course will focus on all aspects of residential wiring installation, parts ID, and circuit analysis. Hands-on knowledge of wiring of switches, 3-way switches, 4-way switches, load centers, lighting and duplex receptacles will be covered. This course will follow all NEC codes and standards for safety and wire sizing.

### **HAC 105 Basic Sheet Metal Layout**

3 Hours

Prerequisites: None

4 hours weekly (2-2)

A basic course for sheet metal pattern layout techniques as used in residential air conditioning and ventilation.

### **HAC 106 Advanced Sheet Metal Layout**

2 Hours

Prerequisites: HAC 105

4 hours weekly (0-4)

An advanced course for sheet metal layout techniques as used in residential and commercial air conditioning and ventilation systems. The triangulation method of sheet metal layout will be emphasized in this course.

### **HAC 107 Electrical Controls and Circuitry**

3 Hours

Prerequisites: ELT 102 or HAC 102

4 hours weekly (2-2)

The student is introduced to air conditioning, heating, and refrigeration controls circuitry as well as solid state electronic controls. Proper troubleshooting techniques as well as safety will be covered.

### **HAC 121 Heating I**

4 Hours

Prerequisites: None

6 hours weekly (2-4)

An introduction to heating, ventilation, and air conditioning systems. Maintenance and repair of gas, oil, and hydronic furnaces will be covered.

### **HAC 122 Heating II**

4 Hours

Prerequisites: HAC 121

6 hours weekly (2-4)

Introduction to air distribution, air cleaning, and calculation of heat loads. Special emphasis will be placed on electric furnace testing and servicing along with heat load calculations.

### **HAC 131 Refrigeration and Air Conditioning I**

4 Hours

Prerequisites: None

6 hours weekly (2-4)

This course covers the fundamentals of refrigeration, refrigeration cycle, and basic refrigeration systems. Compression systems, refrigeration controls, charging, evacuating, and refrigeration tools and materials will be covered.

### **HAC 132 Refrigeration and Air Conditioning II**

4 Hours

Prerequisites: HAC 131

6 hours weekly (2-4)

This course covers the operation and design of window units and split systems. Air conditioning controls and troubleshooting will also be covered. Special emphasis will be placed on psychrometrics, troubleshooting, and system design.

### **HAC 140 Weatherization**

3 Hours

Prerequisites: None

4 hours weekly (2-2)

This course covers the process of implementing cost effective energy efficiency measures that increase the comfort and durability of the home.

### **HAC 142 Commercial Refrigeration**

4 Hours

Prerequisites: HAC 131

5 hours weekly (3-2)

This course is designed to introduce the student to the operation and application of commercial refrigeration, evaporators, condensers, compressors, expansion devices, and related system components. Troubleshooting and typical operating conditions will be studied.

### **HAC 207 Advanced Controls and Circuitry**

3 Hours

Prerequisites: HAC 102 & HAC 107

4 hours weekly (2-2)

An introduction to more advanced controls used in the HVAC/R industry for operational, energy management, and diagnostic applications. This course will cover programmable temperature controls/thermostats, Direct Digital Control (DDC) applications, and Energy Management Systems (EMS) as they apply to heating and air conditioning.

### **HAC 222 Advanced Heating Systems**

3 Hours

Prerequisites: HAC 121, HAC 122

4 hours weekly (2-2)

An introduction to more advanced heat pump systems, including dual fuel applications. Emphasis on air-to-air and geothermal heat pumps.

### **HAC 224 Geothermal Systems**

3 Hours

Prerequisites: None

4 hours weekly (2-2)

This course covers Geothermal as it is used in the HVAC industry. Basic concepts of geothermal installation, design, maintenance, and troubleshooting will be covered. This class will also cover refrigeration theory, heat transfer, payback, current tax incentives, common problems and pricing geothermal systems.

### **HAC 240 Installation of HVAC Systems**

3 Hours

Prerequisites: HAC 121, HAC 131

5 hours weekly (1-4)

Student will develop advanced skills and knowledge of the installation and start-up of residential heating and air conditioning systems. Focuses on installation code requirements and start-up procedures for residential heating and air conditioning systems. Tools safety and add-on purchases will also be covered.

### **HAC 241 Building Systems Performance**

3 Hours

Prerequisites: None

5 hours weekly (1-4)

Students will develop skills to manage and plan green technologies installations. This course focuses on setting up and determines what equipment is best and most cost effective for a particular job. Various types of HVAC equipment and efficiencies and comparison of each will be done.

### **HAC 279 ICE Testing**

2 Hours

Prerequisites: None

2 hours weekly (2-0)

This course is designed to help prepare the student to pass the ICE Exams. The Industry Competency Exams were organized by the ARI (Air Conditioning and Refrigeration Institute) to encourage high standards in education HVAC installation, service, and maintenance.

## History (HIS)

### **HIS 101 Western Civilization I**

IAI – H2 901

3 Hours

Prerequisites: None

3 hours weekly (3-0)

History of Europe to 1715. Attention is given to Mesopotamia, Egypt, Greece and Rome, Middle Ages society and church, the growth of urban culture and trade, the rise of kings, European exploration of other parts of the world, and the emergence of nation states. Emphasis is on broad social, intellectual, religious, and political movements that shaped Europe on the verge of the modern era.

### **HIS 102 Western Civilization II**

IAI – H2 902

3 Hours

Prerequisites: None

3 hours weekly (3-0)

History of Europe since 1650. Beginning with the rise of nation states in the seventeenth century, this course traces the intellectual, political, religious, and social trends that formed the modern world. Important elements include the Scientific Revolution, the political transformations beginning with the American and French Revolutions, the rise of industry, imperialism, the world wars, and the direction of Western culture in the Cold War and after.

### **HIS 103 World Civilizations I**

IAI – S2 912N

3 Hours

Prerequisites: None

3 hours weekly (3-0)

History of world cultures, including those of Africa, Asia, Europe, and the Americas, from prehistory to the Age of Exploration. The course will deal with the emergence of cultures, economic and political developments, and especially the relations between different cultures as they expanded into contact with each other.

### **HIS 104 World Civilizations II**

IAI – S2 913N

3 Hours

Prerequisites: None

3 hours weekly (3-0)

History of world cultures, including those of Africa, Asia, Europe, and the Americas, from the Age of Exploration to the present. The course will deal with all aspects of culture, economic and political development, and the increasing interrelatedness of cultures.

### **HIS 110 Twentieth Century America**

3 Hours

Prerequisites: None

3 hours weekly (3-0)

History of the United States since 1900. Areas of emphasis include political changes during the century; social changes, including class, gender, and region; the impact of the world wars and the wars in Korea and Vietnam; technology and its effects; and the United States in an increasingly interdependent world community.



### **HIS 112 The Twentieth Century World**

3 Hours

Prerequisites: None

3 hours weekly (3-0)

History of the world from 1900 to the present. Attention is given to the issue of imperialism, the world wars, the Cold War and the period after the fall of Communism. The focus is on political, economic, and social changes, and the evolution of the world system from one of a few great powers to an increasingly interdependent model.

### **HIS 201 United States History I**

IAI – S2 900

3 Hours

Prerequisites: None

3 hours weekly (3-0)

The origins of American culture from exploration through settlement and the founding of the United States. Emphasis is given to social, religious, economic, and political factors that shaped and continue to shape American civilization. Colonization, development of American identity, rebellion against Great Britain, the writing of the Constitution, and the evolving cultures of North and South are addressed. The course culminates in the sectional crisis, the Civil War, and Reconstruction.

### **HIS 202 United States History II**

IAI – S2 901

3 Hours

Prerequisites: None

3 hours weekly (3-0)

United States History from Reconstruction to the present. Emphasis is placed on the importance of industrialization and the rise of business in transforming both North and South, and the significance of responses of workers, farmers, religious figures, and others to the social and economic transformation of America. The Progressive Movement, New Deal, New Frontier, Great Society, and other domestic issues are presented, along with the role of the United States in the world wars and the Cold War, and the post-Cold War role of the United States as superpower.

### **HIS 211 Modern American History: 1920-1939 (The Twenties, The Depression, and The New Deal)**

3 Hours

Prerequisites: None

3 hours weekly (3-0)

A study of the contrasts in American social and economic life in the 1920s and the effects of the Great Depression of the 1930s on American attitudes, both national and local. Attention is also given to the major domestic political events of the period. This course is designed for history majors and minors and others desiring a social science elective.

### **HIS 213 Eastern Civilizations**

IAI – H2 903N

3 Hours

Prerequisites: None

3 hours weekly (3-0)

A survey of the history of China and Japan from prehistory to the present. Special attention is given to the ways these non-Western societies organized and governed themselves, and to the art and literature of East Asia. Further emphasis is given to Asian religious outlooks (Confucian, Taoist, Buddhist, and Shinto) that underlie modern Asian values. The interaction of East Asia with Europe and the United States in the last two centuries is also considered.

### **HIS 216I Modern Britain**

3 Hours

Prerequisites: Students enrolled in a study abroad program. (Contact the International Education Coordinator for more information.)

3 hours weekly (3-0)

A survey of the history of England. Includes political, economic, religious, cultural, social and diplomatic aspects.

### **HIS 223 The African-American Experience**

IAI – S2923D

3 Hours

Prerequisites: None

3 hours weekly (3-0)

History of African-American culture from African origins to the present. This course deals with social, economic, literary, religious, and ideological factors as they relate to African origins, the transatlantic slave trade, the cultures formed within slavery in the Americas,

the impact of the American Revolution, the antislavery movement, Civil War, and Reconstruction, the Jim Crow era of segregation, and twentieth century moves toward civil rights.

### **HIS 260I British History to 1714**

3 Hours

Prerequisites: Students enrolled in a study abroad program. (Contact the International Education Coordinator for more information.)

3 hours weekly (3-0)

A survey course covering the political, social, economic, and cultural history of Britain to 1714.

## Humanities (HUM)

### **HUM 120/PSC 120 Latin American Civilization**

3 Hours

Prerequisites: None

3 hours weekly (3-0)

Latin American Civilization is an interdisciplinary course combining the social sciences and humanities. The course will examine Latin American history, politics, religion, geography, languages, culture, music, and art. Students will study the diversity of the peoples of Central and South America and throughout the Caribbean. One of the central purposes is to present students with the opportunity to learn about the complexity and richness of people and nations of the Latin American region. Nations such as Mexico, Brazil, Costa Rica, Colombia, Chile, and Ecuador will be featured in the course.

*This course is also offered as part of a study abroad program. Contact the International Education Coordinator for more information.*

### **HUM 124I Humanities Field Experience**

3 Hours

Prerequisite: Students enrolled in a study abroad program. (Contact the International Education Coordinator for more information.)

3 hours weekly (3-0)

This course develops an appreciation of a country's culture through a greater understanding of art, music, literature, philosophy, geography, history and other cultural aspects. The travel component of the course synthesizes the topics studied and enhances knowledge of the new culture.

### **HUM 125I Irish Experience**

3 Hours

Prerequisite: Students enrolled in a study abroad program. (Contact the International Education Coordinator for more information.)

3 hours weekly (3-0)

This course provides an introduction to Irish life and culture for international learners at Carlow College. Classroom discussions are integrated with guided and independent field trips to provide learners with both the tools to appreciate Irish culture and the opportunity to gain access to that culture during their semester in Ireland.

### **HUM 152-SEE ITD 152 Death and Dying**

[http://www.jalc.edu/files/uploads/global/catalog/course\\_descriptions/itd\\_interdisciplinary\\_special\\_topics.pdf](http://www.jalc.edu/files/uploads/global/catalog/course_descriptions/itd_interdisciplinary_special_topics.pdf)

### **HUM 200I Understanding Austria**

3 Hours

Prerequisites: Students enrolled in a study abroad program. (Contact the International Education Coordinator for more information.)

3 hours weekly (3-0)

This course is an introduction to Austrian history and culture. It focuses on the historical, musical and artistic heritage of Austria ending with a survey of Austrian life today.

## **Independent Study (IDS)**

### **IDS 199 Independent Study**

1-4 Hours

This course provides students with an opportunity to pursue supervised study on an independent basis for academic work in subject areas offered by John A. Logan College. Each proposal for independent study must be submitted in written form through the appropriate department chairperson for approval by the Vice-President for Instruction. Each approved independent study project must be supervised by a faculty member. Students must submit proposals prior to the first week of classes. Forms are available from the Office of the Vice-President for Instruction.

## **Industrial Maintenance (IDM)**

### **IDM 120 Safety and Environmental Management**

2 Hours

Prerequisites: None

2 hours weekly (2-0)

This course is designed to provide the student with an understanding of proper safety precautions involved in using various shop equipment and solutions. Also, proper material handling, storage, and disposal of hazardous materials are discussed.

### **IDM 207 Building Mechanics and Maintenance**

4 Hours

Prerequisites: None

6 hours weekly (2-4)

This course is designed to introduce the student to construction processes, procedures and techniques as they may apply to agricultural mechanics and or facility management. A major emphasis of this course will be applied applications of proper tool usage and procedures for basic carpentry, concrete/masonry, plumbing, electrical, welding and small engines.

### **IDM 210 Hydraulics and Pneumatics**

3 Hours

Prerequisites: None

4 hours weekly (2-2)

A study of basic industrial fluid power systems common to automated industrial equipment, including hydraulic and pneumatic.

## **Industrial Processes (IND)**

### **IND 121 Manufacturing Processes I**

2 Hours

Prerequisites: None

4 hours weekly (0-4)

This course is an introductory study of conventional machining processes. The student will become familiar with machine shop safety, hand tools, precision measurement, identification of materials, machinability, layout, metal cutting, drilling, turning, milling, and grinding machines. The students will also be introduced to computer numerical control (CNC) programming and machine processes.

### **IND 122 CAD/CAM Operations**

2 Hours

Prerequisites: IND 121 or DRT 185

4 hours weekly (0-4)

This course is designed to provide advanced machining experience in the use of CAD/CAM machining processes. The students will develop the drawing, part program, text files, and document files using Auto-CAD and EZ-CAM software. The students will use their programs to produce various component parts as assigned. Various applications of 2D and 3D machining techniques will be emphasized as they apply to CNC machining operations.

### **IND 138 Industrial Seminar**

1 Hour

Prerequisites: None

1 hour weekly (1-0) or block schedule

An orientation to the jobs available in the field. The class sessions include lectures by the instructor and representatives in related fields

as well as class discussion, projects, and individual research.

### **IND 201 Metallurgy**

2 Hours

Prerequisites: None

2 hours weekly (2-0)

A study of the fundamental characteristics and properties of metals and alloys, elementary theories of bonding, crystal structure, deformation phenomena, and phase relationships in binary alloys. Annealing and heat treatment of alloys with major emphasis on iron-carbon alloys.

## **Integrated Science (SCI)**

### **SCI 100 STEM Fundamentals**

1 Hour

Prerequisites: None

2 hours weekly (1-0)

This course is designed to help STEM-oriented students in their transition to college. Students will learn about the resources and services available at John A. Logan College and other higher education institutions, as well as the expectations and challenges of being a STEM-oriented college student. They will also gain important skills that are required to achieve success in math- and science-based college coursework.

### **SCI 210A Integrated Science I**

IAI – LP 900L

3 Hours

Prerequisites: None

4 hours weekly (2-2)

Integrated Science is a lecture-laboratory course designed to provide a wide-ranging background in the life and physical sciences. The primary focus will be on providing the pre-service teacher with the information needed to meet the new science education standards based on content and inquiry methods. Future K-8 teachers will acquire knowledge that can be directly applied to lessons they will teach in the classroom, as well as enhancing their own personal scientific literacy. Science 210A will concentrate on the physical sciences.

### **SCI 210B Integrated Science II**

IAI – LP 901L

4 Hours

Prerequisites: None

5 hours weekly (3-2)

Integrated Science is a lecture-laboratory course designed to provide a wide-ranging background in the life and physical sciences. The primary focus will be on providing the pre-service teacher with the information needed to meet the new science education standards based on content and inquiry methods. Future K-8 teachers will acquire knowledge that can be directly applied to lessons they will teach in the classroom, as well as enhancing their own personal scientific literacy. Science 210B will concentrate on the life sciences.

### **SCI 215 Environmental Biology**

IAI – L1 905

3 Hours

Prerequisites: None

3 hours weekly (3-0)

An introductory course on the study of man's relationship and dependency on the environment and natural resources. Emphasis will be primarily from biological perspectives, including: ecology, biodiversity, evolution, pollution, health and natural resource management. Current environmental issues will be studied to explore their personal and social impact on society.

## **Interdisciplinary (Special) Topics (ITD)**

### **ITD 152 Death and Dying**

3 Hours

Prerequisites: None

3 hours weekly (3-0)

This course presents an interdisciplinary analysis of death and dying. Topics to be covered include definitions of death; cultural, social, and psychological aspects of these topics; children and death; dying patients and their survivors; euthanasia; suicide; the right to die; and other related matters. The course is accepted as a College-wide elective.

### **ITD 200 A to H Special Topics in Social Science**

1 to 3 Hours

Prerequisites: Consent of instructor

1 to 3 hours weekly

This course provides a study of special topics and problems in social science through an interdisciplinary approach. Study may be through lecture, readings, discussions, guided research, travel, and field trips. Topics may vary from semester to semester and must be approved by the social science chairperson.

ITD 200

- A Anthropology
- B Geography
- C History
- D Political Science
- E Education
- F Sociology
- G Travel/Study
- H Psychology

### **ITD 201 Special Topics in Humanities**

1-3 Hours

Prerequisites: Consent of instructor

1-3 hours weekly ((1-3)-0)

This course provides a study of special topics and/or problems in humanities through reading, discussions, guided research, and field trips. Topics vary from semester to semester and must be approved by the humanities chairperson. On-site visitations and travel will be included.

### **ITD 204 Special Topics in Health & Public Service**

3 Hours

Prerequisites: None

3 hours weekly (3-0)

This course is designed to explore the life and culture of other countries. Through an interdisciplinary approach, the history, cultural, and social aspects of other countries will be studied. On-site visitations and travel will be included.

### **ITD 205 Special Topics: Irish Studies**

3 Hours

Prerequisites: None

3 hours weekly (3-0)

Interdisciplinary study of Irish culture, with emphasis on literature and social change. Topics will include Irish history, mythology, poetry, film, politics, and sociology. The conflict between Great Britain and Ireland will be a major focus of the course.

### **ITD 206 Special Topics: Model Illinois Government**

3 Hours



Prerequisites: None

3 hours weekly (3-0)

This course provides a study of special topics and problems through an interdisciplinary approach. Students prepare for and participate in the Model Illinois Government simulation located in Springfield, Illinois.

## **Interpreter Preparation (IPP)**

### **IPP 101 ASL/Non-IPP Majors**

4 Hours

Prerequisites: None

4 hours weekly (3-1)

This course is designed for students who have no knowledge of American Sign Language. The focus of this course will be on developing both expressive and receptive skills in basic ASL to allow students to function comfortably in a variety of communication situations. The course introduces conversational ASL vocabulary, grammatical principles and syntax. Fingerspelling and Deaf culture are also introduced.

### **IPP 102 ASL/Non-IPP Majors**

4 Hours

Prerequisites: IPP 101 with a grade of "C" or higher

3 hours weekly (3-1)

This course is a continuation of American Sign Language 101. The focus of this course is to further develop both expressive and receptive skills in basic ASL. New ASL vocabulary, grammatical principles, and syntax will be introduced. Deaf culture will continue to be studied in this course.

### **IPP 111 Nonverbal Language**

3 Hours

Prerequisites: None

3 hours weekly (3-0)

This course examines the profound and overlooked contribution of nonverbal behavior to the communication processes, particularly in American Sign Language. It compares and contrasts actions rather than speech and signs.

Nonverbal language is inseparable from the feelings that we knowingly or inadvertently project in our everyday social interaction and determines the effectiveness and well-being of our intimate, social, and working relationships. Facial expressions, postures, movements, and gestures are so important that when our words/signs contradict the silent messages contained within them, others mistrust what we say, for they rely almost completely on what we do. Additionally, this course lays the foundation for learning American Sign Language by concentrating on body language, natural gestures, and facial expressions.

### **IPP 144 ASL Classifiers**

3 Hours

Prerequisites: IPP 141

3 hours weekly (3-0)

This course will provide the opportunity for students to enhance their use of classifiers. Classifiers, not used in the English language, are one of the most difficult parts of the American Sign Language for students to learn. Content will be explored using games and activities and a CD text.

### **IPP 151 Deaf Studies/Culture**

3 Hours

Prerequisites: IPP 111, 141

3 hours weekly (3-0)

This course is designed to provide students with awareness and in-depth information on the history of the deaf world/deaf community with its embedded cultural traditions from a sociological and humanistic viewpoint on deafness.

### **IPP 201 Introduction to Interpreting**

4 Hours

Prerequisites: IPP 111, 141 with a grade of "C" or higher

5 hours weekly (3-2)

This course is designed to introduce students to the basic concepts and vocabulary in the field of interpreting. We will focus on the psychological impact of having interpreters involved in the communication event. Students will participate in a cultural role play to begin to understand the feelings of people on every side of the communication. Students will also be exposed to working interpreters through structured observations.

### **IPP 211 ASL Linguistics I**

3 Hours

Prerequisites: IPP 142

3 hours weekly (3-0)

This course will introduce students to the basic linguistic principles behind ASL in an effort to continue their development of sign language skills. The students will develop knowledge of the structure of the language to complement their proficiency in language use. The phonological rules of ASL and English will also be studied. A grade of "C" or higher in IPP 141 and 142 must be achieved to advance to second-year classes.

### **IPP 212 ASL Linguistics II**

3 Hours

Prerequisites: IPP 211

3 hours weekly (3-0)

A continuation of the first semester course in ASL Linguistics, this course is also designed to reinforce the students' acquisition of language skills in ASL by providing the knowledge

competency component. This course focuses on the morphology, syntax and use of ASL. A grade of "C" or higher in IPP 141 and 142 must be achieved to advance to the second-year classes.

### **IPP 222 Interpreting ASL to English**

4 Hours

Prerequisites: IPP 201

6 hours weekly (2-4)

This course explores the theory and skills necessary to interpret from an American Sign Language text to appropriate spoken English. This course will explore the concepts of register, processing time, and the interpretation process. Course materials will be sequenced from paraphrasing, translation, consecutive interpretation, and simultaneous interpretation. Emphasis will be placed on message equivalence and appropriate vocabulary choices. A grade of "C" or higher in IPP 141 and 142 must be achieved to advance to second-year classes.

### **IPP 223 Introduction to Transliterating**

3 Hours

Prerequisites: IPP 143, 211, 231

6 hours weekly (2-4)

This course explores the theory and skills necessary to transliterate and shows in which contexts transliteration is used. In class, students will practice transliterating in conceptually accurate ASL signs and principles executed in English word order. Course materials will be sequenced from preschool to adult-level material and from non-technical to technical use of vocabulary. Emphasis will be placed on speed, conceptual accuracy, fingerspelling, and appropriate vocabulary. A grade of "C" or higher in IPP 141 and 142 must be achieved to advance to second-year classes.

### **IPP 226 Seminar in Interpreting**

3 Hours

Prerequisites: Completion or near completion of an interpreting program and/or work experience as a sign language interpreter

3 hours weekly (3-0)

Seminar in Interpreting provides a forum for professional development for working interpreters. Participants generate the topics for discussion, research those topics, and present an online paper about their chosen topic. These topics are then discussed by the class online, with the author of the paper as discussion leader.

### **IPP 231 Interpreting I**

4 Hours

Prerequisites: IPP 141, 142, 201

6 hours weekly (2-4)

This course focuses on the acquisition of the interpreting process. Students develop processing skills by paraphrasing, translating, consecutive interpreting, and finally simultaneously interpreting spoken and signed messages. Ethical decision making will be reinforced. Diagnostic observation of working interpreters will also be a focus of this course. A grade of "C" or higher in IPP 141 and 142 must be achieved to advance to second-year classes.

### **IPP 240 – Fingerspelling and Numbers**

3 Hours

Prerequisites: IPP 142

3 hours weekly (3-0)

Interpreters must understand and be able to produce fingerspelled words and numbers. This course is intended to give students the tools and vocabulary needed to improve their

reading and production of fingerspelling and numbers used discreetly or in monologues or dialogues.

### **IPP 249 Field Experience I**

3 Hours

Prerequisites: IPP 201

ASL 142-Minimum Grade of "C"

7 hours weekly (2-5)

This practicum will expose students to business practices in the field of interpreting, such as taxes, invoicing and insurance. This course will also provide interpreting experiences, continued observation of working interpreters, exploration of the RID Code of Professional Conduct, and continued interaction with deaf and hard-of-hearing people. The students will participate in a two-hour seminar session per week and five hours of practicum per week.

### **IPP 250 Field Experience II**

3 Hours

Prerequisites: IPP 249

11 hours weekly (1-10)

This practicum will expose students to interpreting experiences, continued observation of working interpreters, and continued interaction with deaf and hard-of-hearing people. The students will meet with the instructor one hour per week to submit invoiced work hours and discuss any concerns or challenges experienced in the field. Students will also complete ten hours of practicum per week (160 hours).

**IPP 251 Interpreting II**

4 Hours

Prerequisites: IPP 231

6 hours weekly (2-4)

This course is a continuation of Interpreting I. The students will simultaneously interpret various spoken and signed texts and participate in role plays related to settings in which interpreters work. Vocabulary development will also be an emphasis and discussions of the application of ethical principles to various situations. A grade of "C" or higher in IPP 141 and 142 must be achieved to advance to second-year classes.

**IPP 275 Evaluation Preparation**

3 Hours

Prerequisites: For students nearing completion of their interpreter program, and working interpreters preparing to take interpreter evaluations.

3 hours weekly (3-0)

This course is intended to provide useful information for sign language interpreters preparing to take written or performance evaluations. In this course we will explore evaluations, what to expect and relaxation techniques to help interpreters do their best in the "hot seat".

**IPP 277 Interpreting for Deaf-Blind Persons**

3 Hours

Prerequisites: Interpreting skill, interest for deaf-blind individuals.

3 hours weekly (3-0)

This course explores interpreting for deaf-blind individuals. It is somewhat self-paced, with assessments at various points in the course.

**IPP 278 ASL Vocabulary Building I**

3 Hours

Prerequisites: IPP 142 with a grade of "C" or higher. Students in the Educational Interpreting Professional Program are working interpreters and qualify for admission to this course.

3 hours weekly (3-0)

This course is intended to supplement American Sign Language vocabulary development. Vocabulary is presented through weekly, themed activities using individual assignments and group discussions. Emphasis is placed on developing a conceptual understanding and application of concepts rather than a word-for-sign exchange.

**IPP 279 ASL Vocabulary Building II**

3 Hours

Prerequisites: IPP 278 with a grade of "C" or higher.

3 hours weekly (3-0)

This course is intended to supplement an American Sign Language class and provide additional language development. The structure includes individual lessons with targeted vocabulary presented via short video clips. Each lesson has an online quiz testing receptive knowledge of the previously presented ASL signs.

## **Journalism (JRN)**

### **JRN 201 Newswriting and Editing I**

IAI – MC 919

3 Hours

Prerequisites: None

3 hours weekly (3-0)

Introduction to news writing includes basic techniques of news gathering, reporting, interviewing, computer-assisted reporting, editing, and layout. Some course-work may be published in the student newspaper, The Volunteer.

### **JRN 202 Newswriting and Editing II**

3 Hours

Prerequisites: JRN 201

3 hours weekly (3-0)

A continuation of news gathering and writing skills. Coursework will be published in The Volunteer student newspaper. Assignments include investigative re-orting, computer-assisted reporting, and a site visit to a local media outlet.

### **JRN 210 Newspaper Production Practicum**

1-3 Hours

Prerequisites: Consent of instructor

5-15 hours weekly (0-5 or 0-15)

Students earn credit by joining The Volunteer newspaper staff, increasing their proficiency in one or more of the tasks required to produce consistently a high-quality student newspaper. Volunteer staff members gain an understanding of the collaborative nature of newspaper work through active participation in one or more of the following areas: newswriting, editing, news photography, design, layout, and/or advertising.

Students use the resources available in and outside the newsroom to increase their skills.

### **JRN 215 Introduction to Mass Media**

IAI – MC 911

3 Hours

Prerequisites: None

3 hours weekly (3-0)

This is an introduction to the various types of mass media, their effect on the public, their development, and ways in which the consumer can be perceptive and discriminating.

## Literature (LIT)

### LIT 210 British Literature

IAI H3 912

3 Hours

Prerequisite: ENG 101

3 hours weekly (3-0)

This is a survey and analysis of masterpieces of English literature from Beowulf to the present.

### LIT 230 American Literature

IAI-H3 914

3 Hours

Prerequisite: None

3 hours weekly (3-0)

This course surveys the literature of the United States from its beginning to the present. Critical analysis will focus on the shaping of various American identities during early American history and how those identities have evolved within contemporary American life. Readings may include poetry, drama, essays, fiction, and literary criticism. All readings will be processed through writing assignments that emphasize critical thinking, creativity, and exposure to various rhetorical forms.

### LIT 236 Introduction to Drama

3 Hours

Prerequisites: None

3 hours weekly (3-0)

This course is designed to deepen understanding, appreciation and ability to critically analyze drama, by reading, discussing and writing about plays from the ancient Greeks to modern theater. The focus will be on various

dramatic forms, on the elements and structure of drama, and on the role of theater in effecting social change. Students are required to attend and critique a live dramatic performance.

### LIT 264 Literature for Children

IAI – H3 918

3 Hours

Prerequisites: ENG 101 or better with a grade of “C” or higher.

3 hours weekly (3-0)

This course introduces students to the best that has been written for children or is appropriate for them. The coursework includes a study of the history of children’s literature, child development and literature, types of children’s literature, and methods of sharing literature with children. Classroom work will focus on the literary and artistic elements of the works. Students will learn to evaluate and select age-appropriate literature and extension activities for children from pre-school through middle school.

*This course is also offered as part of a study abroad program. Contact the International Education Coordinator for more information.*

### LIT 275 The Art of the Cinema

IAI – F2 909

3 Hours

Prerequisites: ENG 101

3 hours weekly (3-0)

This survey course is a study of the art of motion pictures and will include not only a literary and historical approach to the motion picture industry, but also a study of the techniques of motion picture production. An essential part of the course is the requirement

to understand cinematic and literary terms and their applications. The student is also expected to develop a concept of what constitutes excellence in film production.

*This course is also offered as part of a study abroad program. Contact the International Education Coordinator for more information.*

### **LIT 280 Introduction to Literature**

IAI – H3 900

3 Hours

Prerequisites: None

3 hours weekly (3-0)

This course offers an introduction to fiction, poetry, and drama from a variety of time periods and cultural backgrounds. Students learn to interpret and critically analyze literature.

*This course is also offered as part of a study abroad program. Contact the International Education Coordinator for more information.*

### **LIT 281 Introduction to Mythology**

IAI – H9 901

3 Hours

Prerequisites: None

3 hours weekly (3-0)

Introduction to Mythology introduces students to the major mythological stories of various world cultures, particularly those of ancient Greece and Rome, with emphasis on the roles of the gods and of the major characters. The stories are analyzed for their recurring themes, their relationship to modern literature, and their influence on the culture of the Western world.

### **LIT 284 Ethnic Literature in America**

IAI – H3 910D

3 Hours

Prerequisites: ENG 101

3 hours weekly (3-0)

This course is an introduction to contemporary ethnic literature with the primary focus on important Asian-American, African-American, Native American, and Latino writers. Students will explore critical socio-economic, political, and cultural themes with an emphasis on these concepts: the similarities and differences within and among ethnic groups, the changing demographics of America, the dynamic nature of ethnicity, and the effects of stereotyping.

### **LIT 295 Women in Literature**

IAI – H3 911D

3 Hours

Prerequisites: None

3 hours weekly (3-0)

This course introduces students to literary masterpieces written by female writers. By juxtaposing traditional and non-traditional roles for women, students discover how stereotypical images may be transcended. Students will read short fiction, poetry, and drama by a wide variety of writers to develop an understanding of the diversity within each of the literary genres and the multi-dimensional nature of women's selfhood through the ages.



## **Machine Tools (MAC)**

### **MAC 150 Machine Tool Operations**

2 Hours

Prerequisites: Concurrent enrollment in MAC 151, 152, 153

2 hours weekly (2-0)

This course is an introductory study of shop safety, measurement and layout techniques, drills and tapping procedures, materials and fasteners, hand tools, lathes, milling operations, beginning manual CNC part programming operations, and supportive equipment used in the machine tool industry.

### **MAC 151 Machine Tool laboratory**

2 Hours

Prerequisites: MAC 150, IND 121, or consent of instructor

4 hours weekly (0-4)

This course provides laboratory experiences involved in basic drilling operations, machines, holding devices, taps, tapping, reaming, countersinking, counterboring, boring operations, mechanical hardware, and fastening devices as used by the machinist.

### **MAC 152 Machine Tool Laboratory**

2 Hours

Prerequisites: MAC 150, IND 121, or consent of instructor

4 hours weekly (0-4)

This course is designed to provide laboratory experiences emphasizing conventional turning processes. Turning operations using tapering, external and internal threading, four-jaw chucking procedures, indicating, radius turning, and turning between centers will be emphasized.

### **MAC 153 Machine Tool Laboratory**

2 Hours

Prerequisites: MAC 150, IND 121, or consent of instructor

4 hours weekly (0-4)

This course is designed to provide laboratory experiences using conventional vertical and horizontal milling techniques. The student will complete assignments with emphasis on milling set-ups, feeds and speeds, holding jigs and fixtures, flycutting, end milling, and indicating and alignment procedures necessary to develop skills in milling. Introductory CNC milling concepts will also be emphasized.

**MAC 154 Introduction to CNC**

2 Hours

Prerequisites: None

2 hours weekly (2-0)

An introductory course in the study of numerical control (NC) and computer numerical control (CNC) machine processes. Emphasis will be placed on NC fundamentals, punched tape controls, computer-controlled operations, basic machine codes, and manual part programming.

**MAC 155 Machine Tool Laboratory**

2 Hours

Prerequisites: MAC 152, 153

4 hours weekly (0-4)

This course is a continuation of the study of precision measuring techniques with emphasis on the use of the surface plate, height gage, sine bar, gage blocks, layout procedures, and thread measurement. Advanced conventional and CNC turning and milling assignments will be used to apply these measuring skills.

**MAC 156 Machine Tool Laboratory**

2 Hours

Prerequisites: MAC 152, 153

4 hours weekly (0-4)

A continuation study of the turning and milling machines with emphasis on conventional and CNC procedures. Assignments will be used that emphasize the cutting of threads, chucking procedures, holding devices, cutting speeds and feeds, horsepower requirements, offset boring, recessing, grooving, and tapering procedures.

**MAC 157 Machine Tool Laboratory**

2 Hours

Prerequisites: MAC 156

4 hours weekly (0-4)

A continuation study of the turning and milling machines with emphasis on conventional and CNC procedures. Advanced chucking procedures, mandrel turning, indexing operations, offset boring, angular milling, and CNC machine techniques will be emphasized.

### **MAC 158 Machine Tool Laboratory**

2 Hours

Prerequisites: MAC 153, 154, 156

4 hours weekly (0-4)

A continuation study of the turning and milling machines with emphasis on conventional and CNC procedures. Emphasis will be placed on the CNC part program.

### **MAC 159 CAM Operations**

2 Hours

Prerequisites: None

2 hours weekly (2-0)

A continuation of the study of CNC programming with emphasis on advanced milling and turning machine techniques, program set-up, carbide tooling, program editing, ISO/EIA program input, and introductory 3D machining techniques. Students will develop programs through the EZ-CAM 3D software and the EZ-TURN software. CNC machine applications will be applied in the development of projects through laboratory experiences.

### **MAC 160 Machine Tool Laboratory**

2 Hours

Prerequisites: MAC 157

4 hours weekly (0-4)

An advanced study of CNC lathe and milling processes with an emphasis on additional thread form turning, turning eccentrics, precision boring, ring grooving, and form tool cutting procedures.

### **MAC 161 Machine Tool Laboratory**

2 Hours

Prerequisites: MAC 156, 157

4 hours weekly (0-4)

An advanced study of CNC lathe and milling processes with emphasis on the use of the follow rest, steady rest, faceplate turning, carbide tooling, advanced threading, metric threading, and advanced four-jaw indicating procedures.

### **MAC 162 Machine Tool Laboratory**

2 Hours

Prerequisites: MAC 159, 160, 161

4 hours weekly (0-4)

An advanced study of CNC milling and lathe operations with emphasis on the use of the rotary table, sine plate, circular slot cutting, "T" slots, dovetail slots, form tool cuts, keyways, keyseats, and indicating procedures.

### **MAC 163 Machine Tool Laboratory**

2 Hours

Prerequisites: MAC 159, 160, 161

4 hours weekly (0-4)

A study of advanced CNC milling and lathe operations with emphasis on the use of indexing head procedures, direct, simple, and angular indexing, milling grooves, slots, locating of holes, precision gear cutting, and computer-aided machining applications.

### **MAC 164 Machine Tool Laboratory**

2 Hours

Prerequisites: MAC 159, 160, 161

4 hours weekly (0-4)

An advanced study of computer numerical control with emphasis placed on the development of part programs using CAM computer programming and wire EDM programming applications. The computer set-up procedures, tool cycle data, geometry, tool path, verification, plotting, editing, up-loading, and down-loading programs will be emphasized.

### **MAC 180 Blueprint Reading**

3 Hours

Prerequisites: None

3 hours weekly (3-0)

This course is designed for technical students, apprentices in the machine trades, and other personnel who must develop the basic skills required for visualizing and interpreting industrial prints in their jobs. Emphasis will be placed on industrial practice, types of drawings, geometric dimensioning, and the impact of computer drafting as related to the machine trades.

## **MAC 200 Machine Tool Laboratory**

4 Hours

Prerequisites: None

8 hours weekly (0-8)

This course is designed to provide laboratory experiences in machine tool processes and procedures, and skills necessary for the industrial maintenance students. Emphasis will be placed on precision measuring, drilling processes, turning, milling, grinding, and beginning CNC processes as well as other maintenance and repair procedures.

## **Management (MGT)**

### **MGT 112 Principles of Management**

3 Hours

Prerequisites: None

3 hours weekly (3-0)

This course is designed to introduce the concepts, terminology, principles, practices, and techniques of management. Emphasis is placed on managing in a diverse, global, technologically driven, fast-changing economic environment. The four basic management functions of planning, organizing, leading and controlling will be explored in the course.

### **MGT 228 Small Business Management**

3 Hours

Prerequisites: BUS 110

3 hours weekly (3-0)

Attention is focused upon the proper procedures for developing and operating a profitable small business, both Internet and brick and mortar. Students will be introduced to the types of decisions faced by entrepreneurs and managers in on-going firms, and the application of professional business disciplines.

## **Manufacturing Technology (MFT)**

### **MFT 101 Production Technology**

3 Hours

Prerequisites: None

3 hours weekly (3-0)

This course introduces the student to production technologies. It will include the study of computers, CAD, CAM, industrial robots, PLCs, CNC applications, materials handling, inspection by vision, production, planning, scheduling, purchasing, inventory management, and other processes that insure optimum productivity. The student will gain an understanding of how these entities must be integrated for the total production system.

### **MFT 103 Industrial Robots and PLCs**

3 Hours

Prerequisites: None

4 hours weekly (2-2)

This course introduces the student to industrial robots. Included is the operation of PLCs. The student will learn ladder diagram programming of PLCs and point-to-point programming for industrial robots. The student will also write programs to integrate various equipment using the PLCs.

### **MFT 110 Statistical Process Control**

2 Hours

Prerequisites: None

2 hours weekly (2-0)

This course is designed to give students an understanding of quality and the use of statistical process control. Topics covered in this class include: quality, bar charts, Pareto diagrams, histograms, X-R charts, I-R charts, P charts, and process capability.

## **MFT 201 PLC Manufacturing Systems**

3 Hours

Prerequisites: MFT 103 and ELT 100 or 102 or consent of instructor

4 hours weekly (2-2)

This course gives the student hands-on experience with PLC systems. Included are certain technical and internal integration technologies utilizing automated manufacturing systems to demonstrate how CIM works in application. Supporting equipment will also be used.

## Marketing (MKT)

### **MKT 113 Principles of Marketing**

3 Hours

Prerequisites: None

3 hours weekly (3-0)

An introductory course designed to expose the student to today's marketing in the new millennium and keeping up with change. This course contains the study of the contemporary marketing environment; managing technology to achieve marketing success; marketing planning, information, and segmentation; customer behavior; product strategy; distribution strategy; promotional strategy; and pricing strategy.

*This course is also offered as part of a study abroad program. Contact the International Education Coordinator for more information.*

### **MKT 130 Sales**

3 Hours

Prerequisites: None

3 hours weekly (3-0)

A course in the theory and application of professional salesmanship. Modern techniques for making a sale are taught including prospecting, preapproach, approach, presentation, handling objections, proper closings, follow-up and customer service. Also involved is a study of building partnerships, ethics, global and cultural diversity and technology.

### **MKT 224 Advertising**

3 Hours

Prerequisites: None

3 hours weekly (3-0)

An analysis of the principles and practices used in the various types of modern day advertising. Principles of advertising, involving an application of planning, financing, and managing a campaign. Emphasis is placed on the effectiveness of advertising in the total marketing structure.

### **MKT 290 International Marketing**

3 Hours

Prerequisites: None

3 hours weekly (3-0)

Summarizes the significance and benefits of international marketing to the U. S. The student will be able to state the importance of cultural, legal, economic and environmental factors in marketing. Identifies marketing mix options for specific world markets. Evaluates the effect of tariffs, quotas, subsidies, nationalization, and state-owned corporations on growth of world trade. Analyzes foreign markets through secondary research (Internet). Organizes and administers global marketing activities. Develops a portfolio for marketing a product in a foreign market.



## Massage Therapy (MAS)

### **MAS 101 Introduction to Massage Therapy**

3 Hours

Prerequisites: None

3 hours (3-0)

This course introduces the student to the many cultural histories of massage and the theories behind the various techniques they will be applying, including traditional Western (Swedish) massage, Oriental Theory, Relexology, and Shiatsu. It will also cover the benefits and effects of massage, clinical applications of massage, endangerment sites, cautions, and contraindications. There will be a brief introduction to business.

### **MAS 102 Massage Therapy I**

5 Hours

Prerequisites: None

8 hours weekly (2-6)

Students are introduced to the fundamentals of applied massage, including Swedish massage techniques, draping, and appropriate oils and lotions. Areas of emphasis include ethics, client intakes, privacy regulations, techniques for beginning client assessments. Tai Chi and proper body mechanics are taught for the health and safety of the practitioner. This course also includes training in on-site seated massage, introductions to Neuromuscular Therapy (NMT), deep tissue, sports, Anma & Shiatsu.

### **MAS 103 Body Anatomy for Massage Therapy**

5 Hours

Prerequisites: None

5 hours weekly (5-0)

This course is a detailed study of the muscles, bones, and tissues of human anatomy as they pertain to massage therapy. Emphasis is on learning the identification, origin, insertion, and actions of the muscles.

### **MAS 104 Anatomy and Physiology for Massage**

5 Hours

Prerequisites: MAS 101, MAS 102, MAS 103

5 hours weekly (5-0)

This course will continue with a detailed study of muscles, bones, and tissues as they pertain to therapeutic massage with emphasis on the origin, insertion and action of muscles, including synergists and antagonists. It will also address the physiology and pathologies of the different body systems to help the student make informed decisions as to the appropriate application of massage therapy.

### **MAS 105 Massage Therapy II**

5 Hours

Prerequisites: MAS 101, MAS 102, MAS 103, with a grade of "C" or higher

8 hours weekly (2-6)

Students will be instructed in advanced massage therapy techniques and appropriate applications including Shiatsu, deep tissue, neuromuscular technique (NMT), sports massage, stone massage and others. There will be continued instruction in Tai Chi, body mechanics and professional communication. Practice occurs in a supervised lab setting.

### **MAS 106 Advanced Massage Therapy**

3 Hours

Prerequisites: MAS 101, MAS 102, MAS 103

3 hours weekly (3-0)

This course will explore theories behind the various advanced techniques in the field of massage such as Oriental theory, deep tissue, NMT, energy work, reflexology, and others. It will also cover the business side of the massage profession including marketing and bookkeeping.

### **MAS 107 Massage Clinic**

4 Hours

Prerequisites: MAS 101, MAS 102, MAS 103  
and CPR Certification

8 hours weekly (0-8)

This course provides the massage student with the opportunity to work in the clinical setting and in several on-site locations with supervised practice. Meeting times will vary.

### **MAS 108 Massage Therapy Clinic Practice**

1.5 Hours

Prerequisites: MAS 101, MAS 102, MAS 103,  
BIO 105, and CPR Certification

3 hours weekly (0-3)

This course allows the massage student to gain additional experience in the clinical setting, with an emphasis on postural assessment, injury evaluation, and therapeutic exercise recommendations to be provided for clinic clients.

## Mathematics (MAT)

### **MAT 051 Pre-Algebra**

4 Hours

Prerequisites: None

4 hours weekly (4-0)

MAT 051 is designed as a review of the basic operations of arithmetic and an introduction to algebra. The student must earn a grade of "C" or higher in order to enroll in MAT 052. In addition, the student will need to enroll in MAT 052, MAT 061, and MAT 062 before progressing to transfer-level mathematics courses. This course will cover the integers, fractions and decimals; ratio, proportion and percent; prime numbers, factoring; exponents; and solving equations.

*This is a developmental course which is used to calculate GPA at John A. Logan College, but does not transfer.*

### **MAT 052 Basic Algebra**

4 Hours

Prerequisites: MAT 051 or equivalent with a grade of "C" or higher or assessment

4 hours weekly (4-0)

MAT 052 is designed for students with less than one year of high school algebra. The student must earn a "C" or higher in order to enroll in MAT 062. In addition, the student will need to successfully complete MAT 061 (or equivalent) and MAT 062 before progressing to transfer-level mathematics courses. This course covers the properties of real numbers; solving equations and inequalities in one variable; operations with polynomials in one variable as well as an introduction to polynomials in several variables; factoring polynomials leading to solving quadratic equations by factoring; operations with rational expressions and solving

rational equations; graphing linear equations in two variables, slope, and writing equations of lines; solving systems of linear equations; and radical notation, including solving radical equations.

*This is a developmental course which is used to calculate GPA at John A. Logan College, but does not transfer.*

### **MAT 056 Mathematical Literacy**

5 Hours

Prerequisite: MAT 051 or Placement

Minimum Grade: C

5 hours weekly (5-0)

MAT 056 is designed for students with less than one year of high school algebra who need to take Introduction to Contemporary Mathematics or Elementary Statistics. This course integrates elements of basic algebra and problem solving skills. The focus will be on developing conceptual understanding and cultivating problem solving competence at the Intermediate Algebra level. While algebraic procedures will not be emphasized, some procedural skills will be necessary. Along with basic algebra skills, the course will include problem solving skills, critical thinking, and data analysis. For students who need College Algebra or Pre-Calculus, MAT 061 and MAT 062 will also be required.

### **MAT 058 Supportive Skills for Contemporary Mathematics**

2 Hours

Prerequisite: MAT 051 with a grade of "C" or higher or assessment and concurrent enrollment in MAT 112

2 hours weekly (2-0)

MAT 058 is a course designed to support students who are not yet ready for MAT 113.

This course provides the integrated review for the concurrent MAT 112 transfer course, focusing on supportive skills in three or four of the following topics that will be studied in depth in MAT 112: counting techniques and probability, game theory, geometry (additional topics beyond the prerequisite), graph theory, linear programming (including functions and graphs), sets and logic, mathematical modeling, the mathematics of finance, and statistics. Concurrent enrollment in MAT 112 is required.

### **MAT 059 Supportive Skills for Statistics**

2 Hours

Prerequisite: MAT 051 with a grade of "C" or higher or assessment and concurrent enrollment in MAT 119

2 hours weekly (2-0)

MAT 059 is a course designed to support students who are not yet ready for Mat 120. This course provides the integrated review for the concurrent MAT 119 transfer course, focusing on supportive skills in the basic properties of descriptive and inferential statistics, basic probability theory, probability distributions, graphing, measures of location and variation, linear regression and correlation. Concurrent enrollment in MAT 119 is required.

### **MAT 061 Basic Euclidean Geometry**

3 Hours

Prerequisites: MAT 052 with a grade of "C" or higher or assessment

3 hours weekly (3-0)

MAT 061 is designed for students who did not successfully complete at least one year of Euclidean geometry at the secondary level and therefore must fill this deficiency prior to completing the mathematics requirement for their degree from John A. Logan College. In order to help students think deductively, this

course will emphasize logical reasoning, using geometric concepts and relationships as the vehicle to meet this goal. Topics include reasoning, basic logic theory, definitions, axioms, proofs, constructions, line and angle relationships, parallel lines, triangle congruency, and similarity theorems, quadrilaterals, circles, and area of polygons and circles. The ultimate purpose of this course is to help students learn to apply the principles of geometry, as well as enable them to develop logical and deductive thinking.

*This is a developmental course which is used to calculate GPA at John A. Logan College, but does not transfer.*

### **MAT 062 Intermediate Algebra**

5 Hours

Prerequisites: MAT 052 or MAT 056 with a grade of "C" or higher or assessment

5 hours weekly (5-0)

MAT 062 is designed for students with less than two years of high school algebra. Students must earn a grade of "C" or higher in order to progress to transfer-level mathematics courses. This course will cover linear equations and inequalities; graphs of equations—both linear and nonlinear equations; functions and graphs; slope and equation of lines; systems of equations; operations with and factoring of polynomials; operations with rational expressions and solving rational equations; operations with radical expressions and solving radical equations; rational exponents; complex numbers; quadratic equations and graphs; exponential and logarithmic functions.

*This is a developmental course which is used to calculate GPA at John A. Logan College, but does not transfer.*

### **MAT 100 Mathematics for Applied Technologies**

3 Hours

Prerequisites: None

3 hours weekly (3-0)

This is a basic mathematics course for the vocational-technical student. It is not designed for college transfer. This course reviews and improves the practical and mathematical skills necessary for everyday calculations in a wide variety of trade, technical and other occupational areas, including automotive, electrical, construction, plumbing, HVAC and many more. This course begins with very basic mathematics and progresses through a minimal introduction to geometry and triangle trigonometry while stressing a wide variety of real problems and situations to improve on-the-job mathematical skills.

### **MAT 104 Mathematics for Allied Health**

3 Hours

Prerequisites: None

3 hours weekly (3-0)

This course is designed to prepare prospective Allied Health students in the areas of mathematics in which they must be proficient in order to accurately perform their duties as licensed Health Care professionals. Topics covered include the four basic arithmetic operations as applied to positive integers, fractions, mixed numbers, and decimals as well as metric measurements. Conversions among fractions, decimals, percents, ratios, and mixed numbers are also included. The majority of the course is devoted to real problems from pharmacology.

### **MAT 108 College Algebra**

4 Hours

Prerequisites: MAT 061 and MAT 062 both with a grade of "C" or higher or assessment

4 hours weekly (4-0)

MAT 108 is a general education mathematics course; however, it cannot be taken as the only mathematics course for the A. A. degree. College Algebra covers functions, graphs, and transformations. This included an in-depth study of polynomial and rational functions and exponential and logarithmic functions. Systems of equations and inequalities and matrices are also covered.

### **MAT 109 College Trigonometry**

3 Hours

Prerequisites: MAT 108 with a grade of "C" or higher or assessment

3 hours weekly (3-0)

MAT 109 in conjunction with MAT 108 will fulfill the prerequisites for MAT 131, Calculus I. This course covers trigonometric functions and inverse trigonometric functions; solutions of right triangles and oblique triangles; trigonometric identities; trigonometric equations; and vectors.

### **MAT 111 Precalculus**

5 Hours

Prerequisites: MAT 061 and MAT 062 both with a grade of "C" or higher or assessment

5 hours weekly (5-0)

Precalculus is an accelerated, combined course including College Algebra (MAT 108) and Trigonometry (MAT 109). The algebra portion of the course covers functions, graphs, and transformations. This includes an in-depth study of polynomial and rational functions and

exponential and logarithmic functions. The trigonometry portion of the course covers trigonometric functions and inverse trigonometric functions; solutions of right triangles and oblique triangles; trigonometric identities; trigonometric equations; and vectors.

### **MAT 112 Introduction to Contemporary Mathematics with Integrated Review**

3 Hours

Prerequisite: MAT 051 with a grade of "C" or higher or assessment and concurrent enrollment in MAT 058

3 hours weekly (3-0)

MAT 112 is a co-requisite model of a general education mathematics course which fulfills 3 hours of the core curriculum's mathematics requirement. Designed particularly for the non-science major, the course focuses on mathematical reasoning and solving of real-life problems, rather than on routine skills. Three or four of the following topics will be studied in depth: counting techniques and probability, game theory, geometry (additional topics beyond the prerequisite), graph theory, linear programming (including functions and graphs), sets and logic, mathematical modeling, the mathematics of finance, and statistics. Concurrent enrollment in MAT 058 Supportive Skills for Contemporary Mathematics is required.

### **MAT 113 Introduction to Contemporary Mathematics**

IAI – M1 904

3 Hours

Prerequisites: MAT 056 OR MAT 062 with a grade of "C" or higher or assessment

3 hours weekly (3-0)

MAT 113 is a general education mathematics course which fulfills 3 hours of the core curriculum's mathematics requirement. Designed particularly for the non-science major, the course focuses on mathematical reasoning and solving of real-life problems, rather than on routine skills. Three or four of the following topics will be studied in depth: counting techniques and probability, game theory, geometry (additional topics beyond the prerequisite), graph theory, linear programming (including functions and graphs), sets and logic, mathematical modeling, the mathematics of finance, and statistics.

### **MAT 116 Finite Mathematics for Business and Management**

IAI – M1 906

3 Hours

Prerequisites: MAT 108 with a grade of "C" or higher or assessment

3 hours weekly (3-0)

While MAT 116 may be used to fulfill part of the 6 hours general education mathematics requirement for the A. S. degree at John A. Logan College, it is designed primarily for economics, business administration and accounting majors. Those students will be required to take a calculus course to complete their mathematics sequence. MAT 116 will fulfill the mathematics requirement for the A. A. degree. Topics covered include functions and lines, linear systems, linear programming, the Simplex Method, mathematics of finance, set theory, and probability. MAT 116 is not designed for mathematics or science majors.

### **MAT 117 Calculus for Business and Social Sciences**

IAI – M1 900-B

4 Hours

Prerequisites: MAT 108 with a grade of “C” or higher or assessment

4 hours weekly (4-0)

MAT 117 is designed especially for business administration and accounting majors. MAT 117 does not count toward a major or minor in science-related areas. Students who successfully complete this course fulfill the general education mathematics requirement at John A. Logan College. MAT 117 may be taken before or after MAT 116; however, it is recommended that it be taken immediately after College Algebra (MAT 108). Topics covered include graph sketching and recognition, and differentiation and integration of polynomial, rational, exponential, and logarithmic functions. Applications from the worlds of business and social science are emphasized.

### **MAT 119 Elementary Statistics with Integrated Review**

3 Hours

Prerequisite: MAT 051 with a grade of “C” or higher or assessment and concurrent enrollment in MAT 059

3 hours weekly (3-0)

MAT 119 is a co-requisite model of a general education mathematics course which fulfills 3 hours of the core curriculum mathematics requirement. The course introduces the basic properties of descriptive and inferential statistics, basic probability theory, probability distributions, graphing, measures of location and variation, linear regression and correlation.

Emphasis is placed on the application of statistics, distributions, and regression analysis. Concurrent enrollment in MAT 059 Supportive Skills for Statistics is required.

### **MAT 120 Elementary Statistics**

IAI – M1 902

3 Hours

Prerequisites: MAT 056 OR MAT 062 with a grade of “C” or higher or assessment

3 hours weekly (3-0)

MAT 120 is a general education mathematics course which fulfills 3 hours of the core curriculum mathematics requirement. The course introduces the basic properties of descriptive and inferential statistics, basic probability theory, probability distributions, graphing, measures of location and variation, linear regression and correlation. Emphasis is placed on the application of statistics, distributions, and regression analysis.

### **MAT 125 Discrete Structures (Also CPS 202)**

IAI – M1 905, IAI – CS 915

3 Hours

Prerequisites: MAT 108 or MAT 111 either with a grade of “C” or higher or assessment

3 hours weekly (3-0)

MAT 125 is a general education mathematics course which fulfills 3 hours of the core curriculum mathematics requirement. Topics include number systems, sets, relations and functions, logic, Boolean algebra, elementary matrix operations, combinations, permutations, counting techniques, and basic concepts of probability, graphs, and trees. **MAT 125 is ordinarily offered in the fall semester in odd numbered years.**

### **MAT 131 Calculus I**

IAI – M1 900-1, IAI – MTH 901

5 Hours

Prerequisites: MAT 109 or MAT 111 either with a grade of “C” or higher or assessment

5 hours weekly (5-0)

MAT 131 will cover the basic concepts and techniques of single variable calculus. Although careful definitions and statements will be given, emphasis on formal proof will be minimal. Topics will include limits and their properties, differentiation of single variable functions, integration of elementary functions, and several applications of differentiation and integration associated with analytic geometry and physics. Students who successfully complete this course fulfill the general education mathematics requirement of John A. Logan College.

### **MAT 201 Calculus II**

IAI – M1 900-2, IAI – MTH 902

5 Hours

Prerequisites: MAT 131 with a grade of “C” or higher.

5 hours weekly (5-0)

MAT 201 is a continuation of MAT 131. Students who successfully complete this course fulfill the general education mathematics requirement of John A. Logan College. Topics include integration, methods of integration, applications of integration, infinite series, power series, polar coordinates, parametric equations, and introduction to three-dimensional and integral calculus.

### **MAT 202 Calculus III**

IAI – M1 900-3, IAI – MTH 903

3 Hours

Prerequisites: MAT 201 with a grade of “C” or higher

3 hours weekly (3-0)

MAT 202 is an introduction to multivariable calculus. Topics include vectors in two and three dimensions; vector operations; planes and lines in space; cylinders, quadric surfaces, and surfaces of revolution; cylindrical and spherical coordinates; vector-valued functions (space curves); limits, continuity, differentiation, differentials, iterated integrals, double integrals, triple integrals and applications of functions of two or three variables; optimization using Lagrange multipliers; directional derivatives, gradients, and the Jacobian.

### **MAT 205 Differential Equations**

IAI – MTH 912

3 Hours

Prerequisites: MAT 201 with a grade of “C” or higher

3 hours weekly (3-0)

MAT 205 is an introduction to differential equations. Topics include standard solution techniques for first order linear, separable, exact, and/or homogeneous equations; standard solution techniques for homogeneous second and higher order equations with constant coefficients; linear independence of solutions; the Wronskian; the methods of reduction of order, undetermined coefficients and variation of parameters; Cauchy-Euler equations; the existence and uniqueness of solutions; the Laplace transform, transfer and impulse response functions. Further topics may



be chosen from system and plane analysis, Newtonian mechanics, RLC circuit analysis, power series methods, numerical methods, stability of solutions, the heat equation and Fourier Series, or Bessel functions. **MAT 205 is offered in the spring semester only.**

### **MAT 208 Math for Elementary Teachers I**

3 Hours

Prerequisites: MAT 061 and MAT 062 both with a grade of "C" or higher or assessment

3 hours weekly (3-0)

MAT 208 is the first of two courses in the mathematics sequence required for elementary and/or special education majors. It covers sequences, problem solving, set theory, logic, numeration systems and whole numbers, integers, number theory, rational numbers, irrational numbers, and the real number system. In order to receive credit, the student must earn a grade of "C" or higher.

### **MAT 209 Math for Elementary Teachers II**

IAI – M1 903

3 Hours

Prerequisites: MAT 208 with a grade of "C" or higher

3 hours weekly (3-0)

MAT 209 is the second of two courses in the mathematics sequence required for elementary and/or special education majors. The completion of the two course sequence (MAT 208 and MAT 209) will meet the general education mathematics core requirement. It includes percent, real numbers, probability, statistics, geometric figures, congruencies, similarities and concepts of measurement (including the metric system). In order to receive credit, the student must earn a grade of "C" or higher.

### **MAT 221 Introduction to Linear Algebra**

IAI – MTH 911

3 Hours

Prerequisites: MAT 131 with a grade of "C" or higher

3 hours weekly (3-0)

MAT 221 is an introduction to the theory and application of linear algebra. Topics include: vectors; operations on matrices; matrices; inverse of a matrix; solution of systems of linear equations; rank of a matrix; vector spaces and subspaces; linear dependence and independence; basis and dimension; linear transformations; sums, composites, inverses of linear transformations; range and kernel of a linear transformation; proof; determinants; eigenvalues and eigenvectors; orthogonality and inner product spaces. Emphasis is placed on the application of linear algebra and formal verification of theoretical properties.

Applications include polynomial curve fitting, network analysis, stochastic matrices, Leontief Input-Output models, least squares regression analysis, eigenvalue problems, applications in analytic geometry, and least squares approximations. **MAT 221 is ordinarily offered in the spring semester in even numbered years.**

### **MAT 282 Statistics**

IAI – M1 902

3 Hours

Prerequisites: MAT 108 with a grade of "C" or higher or assessment

3 hours weekly (3-0)

MAT 282 is designed to meet the needs of students requiring a statistics course with a college algebra prerequisite in their programs. Topics include descriptive statistics, including

graphical and numerical, basic probability theory, probability distributions, inferences involving estimation, and hypothesis testing, correlation and regression, and analysis of variance. This course will include statistical applications in business, nursing, education, social sciences, and STEM fields.

## Medical Assistant (MDA)

### MDA 101 Orientation to Medical Assisting

1 Hours

Prerequisites: BUS 115, NAD 101 (or Work Waiver) with C or higher and MDA 101 with C or higher.

1 hour weekly (1-0)

This course introduces the student to the career path of becoming a Certified Medical Assistant. The student will gain knowledge in areas of professionalism, confidentiality, ethics, listening and communication skills and will be given an overview of program expectations in both administrative and clinical areas. Student will receive information packets, rules and regulations regarding clinical experiences and mandatory requirement information for vaccines, CPR certification, Drug Screening, Background Checks, HIPAA Laws, Bloodborne Pathogen education and the CMA Scope of Practice.

### MDA 128 Administrative Skills for Medical Assistant

8 Hours

Prerequisites: BUS 115, NAD 101 (or Work Waiver) with C or higher and MDA 101 with C or higher.

10 hours weekly (6-4)

This course lays a foundation for the completion of the MDA program by presenting broad aspects related to each component of being an entry-level professional medical assistant. The course orients students to the clinical, clerical, and content-based areas of front and back office practices, along with the primary scientific and psychological concepts underlying a competent medical assistant's career. The core competencies needed to efficiently manage the front office in a health-care setting

will be emphasized in this course.

Communication skills for oral and written business transactions, professionalism, electronic technology applications, documentation skills, Electronic Medical Records, bookkeeping procedures, legal and ethical concepts, insurance management and HIPAA components, patient education, facility management; community resources; and the frameworks for quality control and assurance are covered. Students will be able to evaluate their potential to succeed as a medical assistant and begin preparation for a CMA career by creating a professional resume, cover letter and reference page. They will also learn interview skills and participate in a Mock Interview situation.

### MDA 130 Pharmacology

3 Hours

Prerequisites: BIO 105, HIT 217, MDA 120, MDA 122, Mathematics placement score above the College's developmental level or MAT 051 or higher, or MAT 104 with a grade of "C" or higher.

4 hours weekly (2-2)

Basic pharmacological considerations commonly seen in outpatient settings, including the proper techniques and calculations involved in the selection, preparation, administration, and monitoring of medications given via oral and parenteral (excluding IV) routes are covered in this course.

### MDA 132 Medical Clinic Procedures

4 Hours

Prerequisites: BIO 105, HIT 217, MDA 120, MDA 122, and admission to the Medical Assistant Program or consent of the program director.

5 hours weekly (3-2)

The fundamental tasks and procedures related to the clinical operations in an ambulatory healthcare facility are presented in this course. Course components include the theory related to clinical procedures involving patient care and instructions; assisting with specialty examinations and procedures and office/ambulatory surgery; rehabilitation and therapeutic modalities; nutrition in health and disease; and diagnostic testing.

accomplished through Externship (160 hours) or Apprenticeship (2,000 hours)

### **MDA 133 Medical Office Laboratory Procedures**

2 Hours

Prerequisites: BIO 105, HIT 217, MDA 120, MDA 122, and admission into the Medical Assistant program or consent of the program director.

3 hours weekly (1-2)

Medical Office Laboratory Procedures introduces the medical assistant student to standard laboratory procedures within a medical office. Health and safety guidelines, types of laboratory testing, quality control, specimen collection, and uses of microscopes are included. Students will learn basic phlebotomy techniques and perform collection methods. Hematology, urinalysis, basic microbiology, and other specialty laboratory tests are reviewed.

### **MDA 134 Externship**

6 Hours

Prerequisites: BUS 115, NDA 101 and MDA 101 with a minimum grade of "C".

11 hours weekly (1-10)

This course is a practical externship at ambulatory health care sites designed to reinforce classroom theory and applications for medical assisting students to gain hands-on experience. Lab hours for this course can be

## **Medical Laboratory Technology (MLT)**

### **MLT 120 Introduction to Clinical Laboratory**

3 Hours

Prerequisites: Admission to Medical Laboratory Technology Program

4 hours weekly (2-2)

Acquaints the student with the profession of medical laboratory technology. Includes an overview of the major disciplines in laboratory medicine, basic laboratory mathematics, collection and handling of specimens, handling and care of laboratory equipment, preparation of solutions and media, methods of sterilization, and the basic elements of quality control. The student is introduced to the disciplines of hematology, immunohematology, clinical chemistry, urinalysis, and microbiology.

### **MLT 121 Serology**

1.5 Hours

Prerequisites: MLT 120

2 hours weekly (1-1)

An introduction to immunology with emphasis on applied serology. The immune response, properties and synthesis of antibodies, antigens, and antibody reactions, and the serological procedures most widely performed in the clinical laboratory are the major topics for discussion.

### **MLT 122 Clinical Microscopy**

1.5 Hours

Prerequisites: MLT 120

2 hours weekly (1-1)

A study of the theory and microscopic examination of urine and other body fluids (i.e.,

synovial fluid, thoracentesis fluid, semen, and gastric fluid).

### **MLT 123 Phlebotomy**

3 Hours

Prerequisites: Successful completion ("C" or higher) in MLT 120

4 hours weekly (2-2)

MLT Phlebotomy covers the phlebotomist's role in health care, confidentiality and ethics; Patient's Bill of Rights; Quality Assurance; basic anatomy and physiology of the circulatory system, safety, infection-control, isolation techniques; OSHA standards; handling accidental needle stick exposures; phlebotomy equipment; phlebotomy technique on routine venipunctures, dermal punctures, and drawing difficult patients; specimen collection and handling techniques; compliance; customer service; patient identification procedures; and competency in phlebotomy. In addition, the student will learn the theory of arterial punctures, but will observe only, in the clinical setting. The student will perform 100 venipunctures during the eight weeks of clinical rotation for recommended experience and competency as well as specimen collection and handling procedures.

### **MLT 223 Immunoematology**

4 Hours

Prerequisites: MLT 121, 122

5 hours weekly (3-2)

A study of the blood groups of mankind and their significance in bloodbanking and transfusion services. Included are the inheritance and properties of blood group antigens and their corresponding antibodies, methods of detection and identification, hemolytic disease processes, and the collection and processing of blood and blood components to ensure safe transfusion. Blood group immunology, record keeping, and quality control are stressed.

### **MLT 225 Clinical Chemistry**

4 Hours

Prerequisites: MLT 223

5 hours weekly (3-2)

A study of the diagnostic chemistry tests in the average clinical laboratory. Includes normal physiology, principles of the reactions and interpretation of test results. Includes basic instrumentation, laboratory mathematics, and quality control.

### **MLT 228 Hematology and Hemostasis**

5 Hours

Prerequisites: MLT 120, MLT 121, MLT 122, MLT 123

6 hours weekly (4-2)

This course offers an introduction to the study of clinical hematology and hemostasis, which emphasizes the basic procedures performed in most clinical laboratories as well as their uses in the diagnosis and follow up of hematological and coagulation disorders. The role of the laboratory in the diagnosis of anemias,

leukemias, myeloproliferative disorders, and other diseases affecting the hematopoietic system is stressed along with the hemostatic component, coagulation factors, coagulation cascade mechanism, heredity and acquired bleeding disorders, coagulation factor deficiencies, therapeutic regimes, and laboratory methods for analysis of clinical conditions.

### **MLT 229 Applied Clinical Microbiology**

5 Hours

Prerequisites: MLT 223, MLT 228, MLT 251

6 hours weekly (4-2)

This course is a study of the normal and pathogenic microflora of man with an emphasis on the methods used for isolation, recognition and identification of microorganisms of medical significance. Included are the types of media used for culturing microorganisms, descriptive cellular and colonial morphology, stains and staining reactions, drug susceptibility testing and procedures used for species identification. Emphasis on host parasite relationships, medical bacteriology, virology, parasitology, and mycobacteria is also stressed.

### **MLT 251 Clinical Rotation I**

3 Hours

Prerequisites: MLT 223

15 clinical hours (0-15)

Supervised clinical experience. Students rotate in hematology/coagulation and immunoematology during the last 6 ½ weeks of the semester.

**MLT 252 Clinical Rotation II**

3 Hours

Prerequisites: MLT 251

15 clinical hours (0-15)

Supervised clinical experience. Students rotate in clinical chemistry/clinical microscopy, and clinical microbiology/serology.

## Music (MUS)

### **MUS 101A Choral Ensemble**

1 Hour

Prerequisites: None

3 hours weekly (0-3)

The John A. Logan College Choral Ensemble is a non-auditioned performance ensemble. The choir performs many times throughout the year including, but not limited to a Holiday Collage, Spring Concert, Spring Musical, and various outside arenas. Musical selections are chosen from a wide variety of repertoire representing styles from the early Renaissance through the 21<sup>st</sup> century. Music majors are required to take one faculty-supervised ensemble every semester of enrollment.

### **MUS 102A Chamber Ensemble**

1 Hour

Prerequisites: Consent of instructor

3 hours weekly (0-3)

The John A. Logan College Chamber Ensemble, also known as the Logan Singers, is open to a limited number of auditioned singers. It is designed to give students experience with choral music specifically written for small groups. Outside of presentations with the Choral Ensemble, the Logan Singers will often perform at area civic and community events as well as public relations venues.

### **MUS 103 Symphonic Band**

1 Hour

Prerequisites: Consent of the Band Director

3 hours weekly (0-3)

This class is designed to give students the opportunity to prepare and perform as a part of a symphonic band. As a part of the course, students will give public performances throughout the semester.

### **MUS 105 Music Appreciation**

IAI – F1 900

3 Hours

Prerequisites: None

3 hours weekly (3-0)

Music Appreciation is designed to familiarize the student with outstanding works of musical composition by means of recordings. This includes an emphasis on the elements of music, various musical forms and periods, and great composers and performers from antiquity through the 21<sup>st</sup> century.

*This course is also offered as part of a study abroad program. Contact the International Education Coordinator for more information.*

### **MUS 106 Beginning Class Piano I**

1 Hour

Prerequisites: None

2 hours weekly (0-2)

A class designed to teach basic musical information and keyboard skills with actual keyboard instruction. Available in the piano laboratory. Elementary education or child care students will find this class particularly useful.



### **MUS 108 Aural Skills I**

1 Hour

Prerequisite: Must be taken in sequence

2 hours weekly (0-2)

MUS 108 is the first in a four-semester sequence of courses in which music majors need to enroll each term. It is the accompanying course of MUS 121. It includes the sequential development of ear training, sight singing, and dictation and may include piano keyboard-assisted instruction.

### **MUS 109 Aural Skills II**

1 Hour

Prerequisites: Must be taken in sequence

2 hours weekly (0-2)

MUS 109 is the second in a four-semester sequence of courses in which music majors need to enroll each term. It is the accompanying course of MUS 122. It includes the sequential development of ear training, sight singing, and dictation and may include piano keyboard-assisted instruction.

### **MUS 110 Music Fundamentals**

3 Hours

Prerequisites: None

3 hours weekly (3-0)

Music Fundamentals is designed for the student who desires knowledge of the basic concepts of rhythm, notation, music reading, scales, chords, and other theoretical applications of music. It assumes no previous knowledge or formal training.

### **MUS 111 Applied Music\***

1 Hours

Prerequisites: Must be taken in sequence

2 hours weekly (0-2) for 1 credit

Private instruction, a weekly half-hour lesson in the classical instrument of choice, commensurate with the student's current ability. Lessons incorporate representative solo and study materials and a basic knowledge of appropriate literature. Students will develop basic knowledge through advanced performance skills. This course is intended for non-music majors, music majors needing further development on their major instrument before taking 200-level courses, music majors fulfilling secondary instrumental study, or students desiring to improve their performance skills for reasons of personal enrichment. Students are required to practice a minimum of two hours per week, maintain a Weekly Practice Log, and perform at a semester-end jury examination. A student may take up to four semesters of the same instrument for college credit. Students should consult with the Applied Lessons Coordinator to begin lessons.

\*Applied Music Sections:

A	Voice	L	Saxophone
B	Piano	M	Percussion
C	Organ	N	French Horn
D	Violin	O	Trumpet
E	Viola	P	Trombone
F	Cello	Q	Tuba
G	String Bass	R	Baritone
H	Flute	S	Harpsichord
I	Oboe	T	Guitar
J	Clarinet	U	Piccolo
K	Bassoon	V-Z	Other

*Some Applied Music courses are also offered as part of the study abroad program. Contact the International Education Coordinator for more information.*

### **MUS 117 Symphonic Band**

1 Hour

Prerequisites: None

2 hours weekly (0-2)

This class is designed to give students the opportunity to prepare and perform as part of a symphonic band. As part of the course, students will give public performances throughout the semester.

### **MUS 118 Band**

1 Hour

Prerequisites: None

3 hours weekly (0-3)

Students will gain practical experience in the rehearsal and public performance of the best in band literature. Open to all students. Students may take up to four semesters of this ensemble for college credit.

### **MUS 119 Orchestra**

1 Hour

Prerequisites: None

2 hours weekly (0-2)

Students will gain practical experience in the rehearsal and public performance of the best in orchestral literature. Open to all students. Students may take up to four semesters of this ensemble for college credit.

### **MUS 121 Theory of Music**

3 Hours

Prerequisites: Students will be given a music theory assessment during the first week of class. Students not meeting minimum criteria will be required to enroll in MUS 110 in conjunction with MUS 121.

3 hours weekly (3-0)

A course for the student who desires in-depth knowledge of the rules and principles involved in part writing. Studies the 17<sup>th</sup> century techniques of writing music. MUS 108 and 109 are companion courses and must be taken the same semester as MUS 121 and MUS 122.

### **MUS 122 Theory of Music**

3 Hours

Prerequisites: Completion of MUS 121 and taken in sequence

3 hours weekly (3-0)

A course for the student who desires in-depth knowledge of the rules and principles involved in part writing. Studies the 17<sup>th</sup> century techniques of writing music. Required for music majors and minors. MUS 108 and 109 are companion courses and must be taken the same semester as MUS 121 and MUS 122.

### **MUS 123 Music Ensemble**

1 Hour

Prerequisites: Consent of the Coordinator/Production Director

3 hours weekly (0-3)

Students may acquire no more than four hours credit and not more than two hours per year. Hours are to be secured for participating in musical activities. Designed to provide students with a combination of instrumental and vocal music experience and to develop skills in concentrated areas of music. Students may receive the opportunity to participate in musicals such as Lil Abner, The Fantastics, Showboat, Oklahoma, Charlie Brown, The Wizard of Oz, Little Mary Sunshine, Paint Your Wagon, Annie Get Your Gun, and Man of LaMancha.

### **MUS 208 Aural Skills III**

1 Hour

Prerequisites: MUS 109. Must be taken in sequence.

2 hours weekly (0-2)

MUS 208 is the third in a four-semester sequence of courses in which music majors need to enroll each term. It is the accompanying course of MUS 221. It includes the sequential development of ear training, sight singing, and dictation and may include piano keyboard-assisted instruction.

### **MUS 209 Aural Skills IV**

1 Hour

Prerequisites: MUS 208

2 hours weekly (0-2)

MUS 209 is the fourth and final class of a four-semester sequence of courses in which music majors need to enroll each term. It is the accompanying course of MUS 222. It includes the sequential development of ear training, sight singing, and dictation and may include piano keyboard-assisted instruction.

### **MUS 211 Applied Music\***

2 Hours

Prerequisites: Must be taken in sequence

4 hours weekly (0-4) for 2 credits

Private instruction, a weekly one-hour lesson in the classical instrument of choice, commensurate with the student's current ability. Lessons incorporate representative solo and study materials and a basic knowledge of appropriate literature. Students will develop basic knowledge through advanced performance skills. This course is intended for music majors on his/her primary instrument or for students seriously interested in improving

their performance skills. Students are required to practice a minimum of four hours per week, maintain a Weekly Practice Log, and perform at a semester-end jury examination. A student may take up to four semesters of the same instrument for college credit. Students should consult with the Applied Lessons Coordinator to begin lessons.

\*Applied Music Sections:

A	Voice	L	Saxophone
B	Piano	M	Percussion
C	Organ	N	French Horn
D	Violin	O	Trumpet
E	Viola	P	Trombone
F	Cello	Q	Tuba
G	String Bass	R	Baritone
H	Flute	S	Harpsichord
I	Oboe	T	Guitar
J	Clarinet	U	Piccolo
K	Bassoon	V-Z	Other

### **MUS 218 Advanced Community Band**

1 Hour

Prerequisites: Must have at least two years experience on their instrument and have the ability to play the music of an advanced instrumental organization.

2 hours weekly (0-2)

Students will experience musicianship, music interpretation, styles, music from the various music historical periods, proper tone production, color, balance, blend, intonation, dynamics, music of the various idioms, rhythm, music of various ethnic origins, and proper stage presentation as defined by professional

musicians. Students will experience concert preparation.

### **MUS 219 Advanced Community Orchestra**

1 Hour

Prerequisites: Must be proficient on their instrument and have the ability to play the music of the orchestral ensemble. Since this is an orchestral ensemble, all-proficient string players are accepted. Brass, winds, and percussion players are accepted as positions become available.

2 hours weekly (0-2)

Students will experience musicianship, music interpretation, proper tone production, color balance, blend, intonation, dynamics and rhythm. Students will also learn proper rehearsal and concert preparation skills. Students will also be exposed to a variety of different musical styles, historical periods, and ethnic origins and give the students a variety of experiences in performing at different of musical events as selected and scheduled by the orchestra conductor.

### **MUS 221 Advanced Theory of Music I and**

### **MUS 222 Advanced Theory of Music II**

3 Hours

Prerequisites: Must have completed MUS 121 and 122 and taken in sequence

3 hours weekly (3-0)

Advanced course in continuing sequence to MUS 121 and 122. Companion courses are MUS 208 and 209.

### **MUS 225 Music Literature/History**

IAI – F1 901

3 Hours

Prerequisites: None

3 hours weekly (3-0)

Music Literature/History provides an introduction to the standard concert repertory through intensive guided listening. Representative works by major composers are chosen to illustrate the principal styles, forms, and techniques of vocal and instrumental music. It is a preparatory course for the professional study of music and assumes a fundamental knowledge and understanding of the elements of music.

## **Nursing Assistant Training (NAD)**

### **NAD 101 Nursing Assistant Training**

7 Hours

Prerequisites: None

10.5 hours weekly (5.5-5)

This course is designed to train students to be competent in skills necessary for the nursing assistant to function successfully in a hospital, long-term care facility, or other health care facilities. The nursing assistant will provide services related to the comfort and welfare of the resident under direct supervision of the licensed nurse or physician. Some topics to be covered include body mechanics, transfer techniques, basic anatomy and physiology, personal care, vital signs, rehabilitation, death, Alzheimer patient care, dying, and post-mortem care. Cardiopulmonary resuscitation is also included.

## **Occupational Therapy Assistant (OTA)**

### **OTA 110 Clinical Observation**

2 Hours

Prerequisites: BIO 205 and Admission to the Occupational Therapy Assistant Program

4 hours weekly (1-3)

This Level I Fieldwork experience provides the student introductory contact with persons of differing age and ability levels. Students will be rotated through approved agencies and centers and begin, under supervision, to practice: (1) critical observation of abilities and disabilities within physical, emotional, cognitive, and social domains; and (2) therapeutic communication techniques.

### **OTA 112 Activities of Daily Living**

3 Hours

Prerequisites: OTA 110, 130, 131, 132, 210

5 hours weekly (2-3)

Basic self-care skills of feeding, hygiene, and dressing, independent living skills of communication, home management, architectural barrier modification, and community resources are stressed. Adaptation to equipment and assistive devices necessary to perform ADL tasks are reviewed.

### **OTA 120 Occupational Therapeutic Media**

3 Hours

Prerequisites: OTA 110, 130, 131, 132, 210

5 hours weekly (2-3)

Theory and practice of selected creative manual arts, includes learning basic skills, concepts of activity analysis in practical application, instruction of individuals and groups, problem-solving, therapeutic application, and laboratory and equipment maintenance.

### **OTA 122 Occupational Therapy Group Process**

2 Hours

Prerequisites: OTA 110, 130, 131, 132, 210

4 hours weekly (1-3)

Exploration of the use of groups in occupational therapy treatment. Occupational therapy models of practice and protocol across the lifespan are emphasized. Group leadership, group facilitation, and activity selection skills will be developed.

### **OTA 130 Introduction to Occupational Therapy**

2 Hours

Prerequisites: BIO 205 and Admission to Occupational Therapy Assistant Program

2 hours weekly (2-0)

Overview of the profession with emphasis on its history, philosophy, and organization. Explores the role of occupational therapy personnel and domain of treatment. Students are introduced to the Occupational Therapy Practice Framework.

### **OTA 131 Disease and Impact on Occupation**

3 Hours

Prerequisites: BIO 205 and Admission to Occupational Therapy Assistant Program

3 hours weekly (3-0)

This course provides an overview of the etiology, clinical course, management, and prognosis of congenital and developmental disabilities, acute and chronic disease processes, and traumatic injuries, and examines the effects of such conditions on occupational performance throughout the lifespan as well as explores the effects of wellness on the individual, family, culture, and society.

### **OTA 132 Occupational Development**

1 Hour

Prerequisites: BIO 205 and Admission to the Occupational Therapy Assistant Program

3 hours weekly (0-3)

Occupational Development is an overview of movement development and movement patterns required for the participation in occupations. An introduction to Occupational Therapy Practice Framework and theories that impact movement and occupational participation are also presented. The course explores the general to more specific aspects of movement development for occupational performance.

### **OTA 133 Clinical Rotation I**

1 Hour

Prerequisites: OTA 110, 130, 131, 132, 210

3 hours weekly (0-3)

This Level I Fieldwork experience is designed to build Physical Disabilities clinical skills with the student. Students will complete in-class laboratory as well as assigned clinical rotations in select physical disability settings. The course will focus on preparatory (including Physical Agent Modalities), purposeful and occupational treatment techniques for orthopedic and neurological disabilities. In the clinic students will provide hands-on therapy under the direct, line-of-sight supervision of a qualified occupational therapy practitioner. Students will begin the process of developing treatment plans and procedures, adapting equipment, and activities.

### **OTA 134 OT in Physical Disabilities**

3 Hours

Prerequisites: OTA 110, 130, 131, 132, 210

5 hours weekly (2-3)

Overview of occupational therapy theory and techniques as they relate to medical conditions referred to occupational therapy; coverage of etiology, body systems affected, residual effects and medical management; study of methods of prevention, reduction, or alleviation of certain aspects of disease/illness which impede activities and self-care performance.

### **OTA 200 Psychosocial Therapy and Practice**

3 Hours

Prerequisites: OTA 112, 120, 122, 133, 134

5 hours weekly (2-3)

Overview of occupational therapy psychosocial theory and techniques as they relate to various classifications of behavioral disorders and developmental disabilities. Group leadership, development of communication, observation skills, and use of self as a therapeutic modality are emphasized.

### **OTA 205 Occupational Therapy in Pediatrics**

4 Hours

Prerequisites: OTA 112, 120, 122, 133, 134

6 hours weekly (3-3)

In analysis of occupational function and dysfunction, this course presents sequential normal and pathological development from birth through adolescence across sensorimotor, play/leisure, cognitive, affective, and self-care/work readiness domains. It investigates issues, treatment, and service systems in effective occupational performance.

### **OTA 210 Occupational Therapy Theory I**

4 Hours

Prerequisites: BIO 205 and Admission to the Occupational Therapy Assistant Program

6 hours weekly (3-3)

Introduction to the fundamental concepts of joint and muscle movement. Overview of sensory systems, musculoskeletal systems, neuroanatomy, kinesiology, and basic assessment of previously mentioned.

### **OTA 217 Fieldwork Experience I**

4.5 Hours

Prerequisites: Successful completion of ALL academic coursework, except OTA 250.

20.5 hours weekly (0.5-20)

Development of professional skills through supervised application of treatment principles. This first Level II Fieldwork experience is designed to provide the first two clinical opportunities to make the transition from "student to clinician." Within the eight weeks, students are expected to perform the functions of a practicing therapist at the first two assigned clinical sites. It is expected that at the end of the eight weeks (school systems minimum 280 hours, all others minimum 320 hours) the student should be functioning at entry-level with close supervision needed. General objectives for each experience are the same. However, specific objectives will be developed by each fieldwork site in conjunction with the OTA educational program. Fieldwork will include at least one physical disability site and any of the following for the other section site: physical disability, psychosocial, pediatric, hand therapy, or a combination. Psychosocial experiences will be strongly encouraged within all fieldwork. Students will be closely supervised by a certified occupational therapy assistant and/or a registered occupational therapist with at least one year clinical

experience. FIELDWORK I EXPERIENCE MUST BE SUCCESSFULLY COMPLETED WITHIN 18 MONTHS OF ACADEMIC COURSEWORK.

### **OTA 218 Fieldwork Experience II**

4.5 Hours

Prerequisites: Successful completion of ALL academic coursework, except OTA 250.

20.5 hours weekly (0.5-20)

The second Level II Fieldwork experience is designed to provide the ongoing opportunity for transition from "student to clinician." As with Fieldwork Experience I, within the eight weeks students are expected to perform the functions of a practicing therapist at the second clinical site. It is expected that at the end of the eight weeks (school systems minimum 280 hours, all other minimum 320 hours) the student should be functioning at entry-level with close supervision needed. General objectives for each experience are the same. However, specific objectives will be developed by each fieldwork site in conjunction with the OTA educational program. Fieldwork will include at least one physical disability site and any of the following for the other section site: physical disability, psychosocial, pediatric, hand therapy, or a combination. Psychosocial experiences will be strongly encouraged within all fieldwork. Students will be closely supervised by a certified occupational therapy assistant and/or a registered occupational therapist with at least one year clinical experience. FIELDWORK EXPERIENCE II MUST BE SUCCESSFULLY COMPLETED WITHIN 18 MONTHS OF ACADEMIC COURSEWORK.



### **OTA 230 Clinical Rotation II**

2 Hours

Prerequisites: OTA 112, 120, 122, 133, 134

4 hours weekly (1-3)

This Level I Fieldwork experience provides the student with clinical opportunities (both in-class laboratory and assigned clinical sites) for treatment of patients/clients of different ages and disabilities. Students will continue practice of treatment and communication techniques under supervision. Students will continue to expand the process of developing treatment plans and procedures, adapting equipment, and activities with an emphasis on ethics and the cultural impact of client-centered treatments. Preparation for participation in the Level II Fieldwork experiences is provided.

### **OTA 231 Occupational Therapy Theory II**

1.5 Hours

Prerequisites: OTA 112, 120, 122, 133, 134

2.5 hours weekly (1-1.5)

Provides an expanded knowledge of development and administration of selected tests, theoretical basis for treatment, and treatment principles with an emphasis on clinical reasoning, the OT process, and diagnostic-specific techniques across the life span.

### **OTA 232 Aging and Impact on Occupation**

1.5 Hours

Prerequisites: OTA 112, 120, 122, 133, 134

2.5 hours weekly (1-1.5)

This course introduces the student to the physical, psychological, socioeconomic, cultural aspects of aging and their relationship to occupational therapy programs for older adults. The focus is on providing care to individuals experiencing disorders of aging and uses of occupational therapy process of evaluation, planning, implementation, and community programming.

### **OTA 250 Occupational Therapy Administration**

3 Hours

Prerequisites: OTA 200, 205, 230, 231, 232

3 hours weekly (3-0)

This class provides an introduction to basic management knowledge and skills essential to occupational therapy practice. Topics emphasized are marketing, supervision (both clinical and administrative), communications, quality assurance, and departmental operations. Students will develop a resume, practice job interviewing, and participate in other activities related to the professional organization(s). This course will be taught utilizing web-based format.

## **Orientation (ORI)**

### **ORI 100 College 101**

1 Hour

Prerequisites: None

2 hours weekly (1-0)

This course is designed to help students in their transition to college. Students will learn about the resources and services available at John A. Logan College, as well as the expectations of being a college student.

### **ORI 111 PN Orientation**

.5 Hours

Prerequisites: Admission to LPN program

.5 hours weekly (.5-0)

This course introduces the student to the concepts and requirements of the License Practical Nursing Program. Students will learn the expectations of both John A. Logan College and the Nursing Department. Topics discussed include the John A. Logan College mission and values, the social media policy, HIPPA violations, course, lab and clinical requirements, ATI testing procedure, criminal background checks and drug screening.

### **ORI 212 ADN Orientation**

.5 Hours

Prerequisites: Admission to ADN program

.5 hours weekly (.5-0)

This course will introduce students to the ADN program entry requirements for classroom, labs, and clinicals.

## **Physical Education Development/ Education Courses (PEDE)**

### **PEDE 190 Introduction to Coaching**

3 Hours

Prerequisites: None

3 hours weekly (0-3)

This course is designed to provide as much insight as possible into the coaching profession and to examine the many facets involved in the world of the coach. This is a course that will attempt to describe the nature of coaching, point out potential problem areas, offer some advice, and create discussion and debate for those who are about to enter the field and those who are already in it.

### **PEDE 191 Introduction to Physical Education**

2 Hours

Prerequisites: None

2 hours weekly (2-0)

This course is designed to provide a sound knowledge of physical education, fitness, and sports in order to favorably influence the student's attitudes, habits, and practices pertaining to the responsibilities of the physical educator. This is a course mandatory for physical education majors, although anyone may take this class.

### **PEDE 192 Contemporary Physical Fitness**

2 Hours

Prerequisites: None

2 hours weekly (2-0)

Fitness class is designed to acquaint college students of all ages with the nature and scope of establishing lifelong patterns of fitness. The student will receive the facts and principles that provide the basis for motivating people to

resources, and assessment instruments will be used in developing an individualized, well-rounded physical fitness program.

### **PEDE 202 Physical Education for Children**

3 Hours

Prerequisites: None

3 hours weekly (3-0)

This course is designed to develop skills and knowledge for organizing, incorporating, and assessing physical education progressions for children and youth. This course will consist of lectures, videos, class participation in demonstrations of teaching movement, teaching practice, and service learning.

## Philosophy (PHL)

### PHL 111 Ethics and Moral Problems

IAI – H4 904

3 Hours

Prerequisites: None

3 hours weekly (3-0)

A discussion and analysis of the principal ethical theories and concepts of human conduct, as well as a critical evaluation of these theories as they address particular moral problems.

*This course is also offered as part of a study abroad program. Contact the International Education Coordinator for more information.*

### PHL 121 Introduction to Logic

IAI – H4 906

3 Hours

Prerequisites: None

3 hours weekly (3-0)

This course is a study of the rules of valid judging and reasoning, both inductive and deductive, in a traditional, language-centered context rather than a symbolic context. Logical analysis of both formal and informal fallacies and of the consistency and logical consequences of a given set of statements is included. Logical analysis is applied to concrete problems dealing with our knowledge of reality.

### PHL 131 Introduction to Philosophy

IAI – H4 900

3 Hours

Prerequisites: None

3 hours weekly (3-0)

An introduction to the enduring problems that arise in human experience and how

philosophers address them. Topics include human nature, identity, the nature of knowledge and truth, reality, moral and aesthetic values, the question of meaning in human life, and religion.

### PHL 200 Asian Philosophy

IAI – H4 903N

3 Hours

Prerequisites: None

3 hours weekly (3-0)

A survey of several representative Asian cultures and value systems through their religious and philosophical concepts.

### PHL 260 World Religions

IAI – H5 904N

3 Hours

Prerequisites: None

3 hours weekly (3-0)

An examination of the foundations and teachings of the world's major religions, including Judaism, Christianity, Islam, Hinduism, Buddhism, and Taoism.

*This course is also offered as part of a study abroad program. Contact the International Education Coordinator for more information.*

### PHL 265 Intro to Philosophy of Religion

IAI – H4 905

3 Hours

Prerequisites: None

3 hours weekly (3-0)

Course critically examines theological concepts and theories as well as aspects of religious belief. Questions to be addressed include: what is the nature of the deity and are there rational

grounds for belief in a deity, what is the nature of good and evil, are there miracles, are there practical reasons for faith, what is the nature of religious language, and what is the relationship between science and religion.

## **Physical Education Development (PED)**

### **PED 126 Beginning Weight Training**

.5-2 Hours

Prerequisites: None

Hours weekly (variable)

This course introduces the student to the basics of fitness and weight training by combining physical workouts with instructional materials, videos, and quizzes. The student will learn components of physical fitness, health trends, weightlifting, techniques, and the process of developing an individualized workout program.

### **PED 127 Intermediate Weight Training**

.5-2 Hours

Prerequisites: None

Hours weekly (variable)

This course is designed as a continuation of the aerobic and weight training courses; however with proper orientation it may be started as the first aerobics and weight training class.

### **PED 128 Advanced Weight Training**

.5-2 Hours

Prerequisites: None

Hours weekly (variable)

This course is designed as a continuation of the aerobic and weight training courses; however, with proper orientation it may be started as the first aerobics and weight training class. The program consists of an Aerobic Super Circuit, which takes 13 minutes to complete. The main thrust of the circuit is to promote cardiovascular fitness. A second phase of the program is in the individual body parts section, which allows the student to make gains in the muscular tone and strength development areas.

## **PED 129 Strength Training & Conditioning**

.5-2 Hours

Prerequisites: None

Hours weekly (variable)

This course is designed to provide the student athlete with additional fitness gains such as muscular strength, endurance, flexibility, body composition, agility, and cardio respiratory endurance. The student will have an opportunity to create a daily log to assess gains in fitness components.

## **PED 180 Aquatic Toning and Aerobic**

### **Activity I**

.5-2 Hours

Prerequisites: None

Hours weekly (variable)

This course is designed to provide the student with increased fitness and flexibility through aquatic exercise. The student will participate in an aquatic fitness and toning exercise program.

## **PED 203 Walking for Fitness I**

2 Hours

Prerequisites: None

4 hours weekly (0-4)

This course will provide students with the opportunity to learn the fundamentals and proper techniques of walking for health and fitness. Emphasis is placed on stretching exercises for warm-up and utilization of weight training machines for strength and endurance gains.

## Physical Science (PHS)

### PHS 101 Environmental Science

IAI – Pending Approval

4 Hours

Prerequisites: None

5 hours weekly (3-2)

This course integrates various topics as they relate to the life and physical environmental sciences. It is oriented to provide insight and discussion on the economics, ethics, and feasibility of several environmental topics, including (but not limited to) the various living systems and physical aspects of ecosystems, resource availability and consumption, and sustainability. Human impact on the environment will be discussed.

### PHS 102 Astronomy

IAI – P1 906

3 Hours

Prerequisites: None

3 hours weekly (3-0)

A general education course in astronomy that examines astronomical phenomena and concepts, including the solar system, planetary motions, atoms and radiation, stars and galaxies, and the origin and evolution of the universe. Textbook principles as well as observation of the night sky are brought together in this course.

### PHS 103 Earth Science

IAI – P1 905L

3 Hours

Prerequisites: None

4 hours weekly (2-2)

This is a lecture and laboratory course that serves as an introduction to geology, including the many cycles that drive our planet, Earth. Major topics include scientific research methods, formation of Earth, Earth in relation to the universe, geologic time, plate tectonics, the rock cycle, the water cycle, natural hazards, human impact on the Earth, life through time, and climate changes through time. Laboratory includes traditional on-campus investigations and field lab trips to explore the exemplary natural environments found in southern Illinois.

### PHS 105 How Things Work: Physics of Everyday Life

IAI – P1 900

3 Hours

Prerequisites: MAT 051

3 hours weekly (3-0)

This course introduces the principles of physics and science for non-science major or science major students. Students will examine selected familiar real-life examples in a case-study format and explore their connection to underlying physical principles, which are revisited when they appear in another example, thus building the universality of the concepts. The course will consider examples covering topics from mechanics, fluids, heat, electricity and magnetism, optics, waves, and modern physics. The course will be helpful for students to develop logical thinking to solve problems. This course is also helpful for students wishing

to gain a conceptual understanding before taking a more advanced physics course.

### **PHS 107 Weather & Climate**

IAI – P1 905

3 Hours

Prerequisites: None

3 hours weekly (3-0)

A first course in the atmospheric sciences, for both science and non-science majors, which integrates an exposure to current atmospheric events with an understanding of current scientific thinking of atmospheric processes. The course covers topics ranging from basic atmospheric composition, structure and motions to an introduction to climatology. The course will also emphasize scientific literacy and qualitative reasoning applied to atmospheric behavior.

### **PHS 111 Environmental Science II**

IAI – LP 901

3 Hours

Prerequisites: None

3 hours weekly (3-0)

This course integrates various topics as they relate to the life and physical environmental sciences. It is oriented to provide insight and discussion on the economics, ethics, and feasibility of several environmental topics, including (but not limited to) the various living systems and physical aspects of ecosystems, resource availability and consumption, and sustainability. Human impact on the environment will be discussed.

### **SCI 100 STEM Fundamentals**

1 Hour

Prerequisites: None

1 hour weekly (1-0)

This course is designed to help STEM-oriented (Science, Technology, Engineering, and Mathematics oriented) students in their transition to college. Students will learn about the resources and services available at John A. Logan College and other higher education institutions, as well as the expectations and challenges of being a STEM-oriented college student. Students will also gain important skills that are required to achieve success in math- and science-based college coursework.



## Physics (PHY)

### PHY 121 Technical Physics

IAI – P1 900L

3 Hours

Prerequisites: None

4 hours weekly (2-2)

A general study of physics emphasizing applications to the technical fields and introducing the laws of motion and equilibrium and their relation to work, energy, and power. Also included are the principles of mechanics as they are applied to solids and fluids and the principles of heat, electricity, and magnetism.

### PHY 155 College Physics I

IAI – P1 900L

5 Hours

Prerequisites: MAT 111 or 2 yrs. H. S. algebra and 1 yr. H. S. Trigonometry

6 hours weekly (4-2)

An introduction to physics. Classical mechanics and topics chosen from heat, sound, and materials science. This is the first in a non-calculus sequence for science, mathematics, pre-med, chemistry, and other majors requiring college physics.

### PHY 156 College Physics II

5 Hours

Prerequisites: PHY 155

6 hours weekly (4-2)

A continuation of PHY 155. Electricity and magnetism along with topics selected from optics and modern physics; the final course of the non-calculus college physics sequence.

### PHY 201 Statics

IAI – EGR 942

3 Hours

Prerequisites: MAT 131 with a grade of "C" or higher, PHY 155 (or HS Physics I) with a grade of "C" or higher and concurrent enrollment in PHY 205, University Physics I or PHY 205, University Physics I, with a grade of "C" or higher.

3 hours weekly (3-0)

This course introduces principles of static equilibrium to solve statically determinate systems. It is a rigorous course in statics for engineering, mathematics, physics, and other majors requiring a calculus-based mechanics course. Topics include force and moment vectors, equivalent systems of forces and distributed loadings, equilibrium of particles and rigid bodies, centroid, center of gravity, moment of inertia, and virtual work. Structural analysis of simple trusses, space trusses, frames, and machines are considered.

### PHY 202 Dynamics

IAI – EGR 943

3 Hours

Prerequisites: PHY 201

3 hours weekly (3-0)

A continuation of PHY 201. Methods of elementary classical mechanics as applied to particles and rigid bodies in nonequilibrium situations. Vector algebra is used extensively and some vector calculus is introduced. A programmable calculator is strongly recommended for the course. This course is currently offered in the spring semester.

### **PHY 203 Mechanics of Materials**

IAI – EGR 945

4 Hours

Prerequisites: PHY 201 with a minimum grade of “C” or higher

3 hours weekly (3-0)

This course is a continuation of Statics (PHY 201), building on that course’s material to offer a more thorough understanding of the physics of beams and shafts. Topics include, but are not limited to: concepts of stress and strain, material properties (elastic and plastic); torsion; shear stresses and deformations; thermal stresses; thin-walled pressure vessels; pure bending; stresses and strains; transverse loading of beams; shear stress and combined loading; transformations of stress and strain (Mohr’s Circle); design of beams and shafts for strength ; shear and moment diagrams; deflection of beams; energy methods; and column.

### **PHY 205 University Physics I**

IAI – P2 900L, IAI – PHY 911

5 Hours

Prerequisites: MAT 131

7 hours weekly (4-3)

PHY 205 is the first course in a standard two-semester calculus-based physics sequence that is offered at most universities and colleges for engineering majors. The course will introduce students to the fundamental laws of mechanics and oscillations. Topics covered will include kinematic motion in one and two dimensions, Newton’s law, momentum, work and energy,

conservation of energy and momentum, rotational motion, force and energy concepts as applied to rotational dynamics, static equilibrium, and brief introduction to elasticity, introduction to universal law of gravitation and Kepler’s laws, and simple harmonic motion. The laboratory component of the course will investigate these concepts.

### **PHY 206 University Physics II**

IAI – PHY 912

5 Hours

Prerequisites: PHY 205, MAT 201, or consent of instructor

7 hours weekly (4-3)

PHY 206 is the second course in a standard two-semester calculus-based physics sequence that is offered at virtually all universities and colleges for engineering majors. PHY 206 covers electricity, magnetism, electromagnetic waves, optics, and an introduction to relativity and quantum physics.

### **PHY 214 Introduction to Circuit Analysis**

IAI – EGR 931

3 Hours

Prerequisites: MAT 202 with a grade of “C” or higher and the completion of PHY 206 or concurrent enrollment.

3 hours weekly (3-0)

This course introduces students to fundamental principles of circuit theory as used in engineering and scientific applications. Topics include basic concepts of electrical current, voltage, power and energy; units; independent and dependent sources; resistance R; Ohm’s Law; Kirchhoff’s Laws; simple resistive circuits; delta-to-wye transformations; resistive circuit analysis methods (node-voltage, mesh-currents, source transformations, Thevenin and Norton

equivalents, and superposition); operational amplifiers; capacitance C and inductance L; transient responses of RC, RL and RLC circuits; sinusoidal steady state RLC circuits (analysis in time domain and frequency domain, and power).

**PHY 224 Electric Circuit Analysis with Laboratory**

IAI – EGR 931L

4 Hour

Prerequisites: PHY 214 or concurrent enrollment

5 hours weekly (3-2)

This course introduces students to fundamental principles of circuit theory as used in engineering and scientific applications. Topics include basic concepts of electrical current, voltage, power and energy; units; independent and dependent sources; resistance R; Ohm's Law; Kirchhoff's Laws; simple resistive circuits; delta-to-wye transformations; resistive circuit analysis methods (node-voltage, mesh-currents, source transformations, Thevenin and Norton equivalents, and superposition); operational amplifiers; capacitance C and inductance L; transient responses of RC, RL and RLC circuits; sinusoidal steady state RLC circuits (analysis in time domain and frequency domain, and

## **Political Science (PSC)**

### **PSC 131 American Government**

IAI – S5 900

3 Hours

Prerequisites: None

3 hours weekly (3-0)

A survey of American national, state, and local governments, including a study of the structure-function of the political system and the elements of constitutionalism, republicanism, and federalism. Emphasis will be given to the dynamics of the political process through the operation of public opinion, the party system, and the electoral process. Special attention will be given to an analysis of the Constitution of the United States. Students who receive credit for Political Science 131 automatically fulfill the statutory requirements of the State of Illinois.

### **PSC 211 State and Local Government**

IAI – S5 902

3 Hours

Prerequisites: None

3 hours weekly (3-0)

A survey of the structure and functions of American state and local governments. Attention will be given to intergovernmental relations, and the organization, powers, functions, and finances of state and local governments. Emphasis will be placed upon the unique problems of the metropolitan areas.

### **PSC 212 Introduction to International Relations**

IAI – S5 904N

3 Hours

Prerequisites: None

3 hours weekly (3-0)

An introduction to international relations emphasizing contemporary international problems and relations. The course is a foreign policy analysis of the international interactions of states and other international actors. In addition, the collapse of Soviet and Eastern European communism, the rediscovery of economics, the resurgence of nationalism, and the emergence of global problems will be examined.

### **PSC 215 Congress: The Legislative Process**

3 Hours

Prerequisites: None

3 hours (3-0)

Presents an inside view of the U. S. Congress and the complex range of individuals, organizations, and processes it embodies. Programs are hosted by journalist Edwin Newman and feature Norman Ornstein, professor of political science, Catholic University. Themes addressed include congressional elections, committees, parties, leadership, lobbying, constituency relations, lawmaking, budgeting, and separation of powers.

### **PSC 220 The Law and Society**

3 Hours

Prerequisites: None

3 hours weekly (3-0)

A course on the legal principles on which the law is based, and the legal system which administers the law. Helps students understand what their legal rights are and informs them of what legal principles are involved in a variety of daily situations.

### **PSC 289 Introduction to Comparative Government**

IAI – S5 905

3 Hours

Prerequisites: None

3 hours weekly (3-0)

This course is a comparative examination of the systems, processes, and policies of selected countries. The analysis of each country includes a study of political culture, structure, function, and public policymaking of nine separate countries.

## **Practical Nursing (PNE)**

### **ORI 111 Orientation**

.5 Hours

Prerequisites: None

2 hours weekly (1-0)

This course is designed to help students in their transition to college. Students will learn about the resources and services available at John A. Logan College, as well as the expectations of being a college student.

### **PNE 101 Fundamentals of Nursing**

3 Hours

Prerequisites: Acceptance into Practical Nursing Program

3 hours weekly (3-0)

Fundamentals of Nursing is a basic course which presents an introduction to the practice of nursing, the role of the practical nurse, and his/her function in the health care system. The student will learn the nursing process, the therapeutic environment, health maintenance in the health care system, and nursing interventions in specific situations. The Nurse Practice Act will be discussed, as well as end-of-life therapies and care.

### **PNE 102 Nursing Procedures**

2 Hours

Prerequisites: Acceptance into Practical Nursing Program

4 hours weekly (0-4)

Students will practice and demonstrate basic skills performed by the licensed practical nurse in a lab setting. Emphasis will be placed on safety, use of standard precautions, body mechanics, care of equipment and supplies, maintenance of a therapeutic environment and documentation. The course format consists of demonstration and discussion, student practice and return demonstration of skills by students. Skills will be emphasized during aspects of the course.

### **PNE 103 Clinical Nursing**

1.5 Hours

Prerequisites: Acceptance into Practical Nursing Program

4.5 hours weekly (0-4.5)

The purpose of PNE 103 is to allow the student the appropriate supervised time to practice in a clinical facility the content theory material presented in PNE 101, 102A, 102B and 105. Students must show proof of appropriate physicals and inoculations.

### **PNE 105 Nursing Throughout the Life Cycle**

1 Hours

Prerequisites: Acceptance into Practical Nursing Program

1 hours weekly (1-0)

This course is designed to present the theory material necessary to introduce the student to the normal growth and development of man from birth to death. The course will introduce the student to development in terms of maturation, psychological, cognitive, and motor functions. Age groups will be presented, including differences, changes occurring, developmental tasks expected, and nursing implications. Without an awareness of the range and complexity of distinctions between age groups, a nurse cannot be cognizant of the client's special needs or obvious factors related to health conditions. The individual will be discussed in relation to the health care system. The nurse's influence on the client's growth and development will be emphasized.

### **PNE 161 Pharmacology in Nursing I**

2 Hours

Prerequisites: Acceptance into Practical Nursing Program

2 hours weekly (2-0)

Because nurses play a vital role in treatment regimens involving the use of drugs, this course provides an introduction to drugs and drug administration. The student will learn the major factors affecting drug actions and drug therapy for special patient populations. Calculation of medication dosage will be given special emphasis. Information concerning common dosage, therapeutic action, and contra-indications of selected groups of drugs will be presented.

### **PNE 171 Pharmacology in Nursing II**

2 Hours

Prerequisites: PNE 161

2 hours weekly (2-0)

Intended to build upon Pharmacology in Nursing 161, this course emphasizes drug therapy as a means of patient care. The student will learn about commonly used medications which act on the various body systems. Information will be emphasized concerning common dosage, therapeutic action, and contra-indications.

### **PNE 183 Maternal and Newborn Health**

1.5 Hours

Prerequisites: PNE 101, 102, 103, 105, 161

1.5 hours weekly (1.5-0)

The purpose of this course is to develop within the practical nursing student an appreciation of the meaning of effective prenatal and postnatal care, an understanding of the total birth process, and to develop skills for supervised practice in caring for the mother and newborn while recognizing deviations from normal.

### **PNE 184 Obstetrics Clinical**

.5 Hour

Prerequisites: Successful completion of first semester

PNE 101, 102, 103, 105, 161

1.5 hours weekly (0-1.5)

Designed to present the expected obstetric objectives that a student will complete at a clinical facility giving the student the appropriate supervised experience.

### **PNE 193 Pediatric Nursing**

1.5 Hours

Prerequisites: PNE 101, 102, 103, 161

1.5 hours weekly (1.5-0)

The purpose of this course is to broaden the student's understanding of the care of the well and sick child. Emphasis is placed on the family-centered approach to the nursing care of children with medical and surgical conditions most often affecting children. The student is exposed to the preventive, rehabilitative, and terminal care of the child and his family while caring for children with acute, chronic, and congenital conditions.

### **PNE 204 Adult Nursing I**

2 Hours

Prerequisites: PNE 101, 102, 103, 105, 161

2 hours weekly (2-0)

Nursing care for persons with medical and surgical health deviations is learned and practiced.

### **PNE 206 Adult Nursing II**

2 Hours

Prerequisites: PNE 204 and 205

2 hours weekly (2-0)



Nursing care for persons with medical and surgical health deviations is learned and practiced. Legal aspects of nursing are presented.

**PNE 207 Medical/Surgical Clinic**

3.0 Hours

Prerequisites: PNE 101, 102, 103, 105, 161, 209

9.0 hours weekly (0-9)

The PNE 207 course is designed to present the expected medical/surgical objectives that a student will complete at a clinical facility offering the student the appropriate supervised experience.

**PNE 208 Mental Health Nursing**

1 Hour

Prerequisites: Acceptance into Practical Nursing Program

1 hour weekly (1-0)

Introduction to mental health and the deviations from normal, including etiology and accepted modes of treatment. Includes nursing interactions in supervised practice.

**PNE 209 I.V. Therapy**

.5 Hours

Prerequisites: Acceptance into Practical Nursing Program

1.5 hours weekly (0-1.5)

This course is designed to give nurses working in diverse patient care settings practical information needed for safe I.V. therapy. Infusion guidelines, venipuncture techniques, I.V. fluids, blood and blood components, and calculation of I.V. flow rates will be discussed and practiced in a lab environment.

## Psychology (PSY)

### **PSY 110 College Success and Career Planning**

3 Hours

Prerequisites: None

3 hours weekly (3-0)

This course is designed to provide students with guidelines, strategies, and actions toward college success and career planning. Specific strategies for success are included in setting goals, planning ahead, time management, active learning, learning styles, study skills, choosing a major, planning a career, managing a healthy lifestyle, developing personal values, and workforce preparation.

### **PSY 128 Human Relations**

2 Hours

Prerequisites: None

2 hours weekly (2-0)

A study of the patterns of human behavior that lead to effective interpersonal relationships in personal, social, and business situations. Emphasis is placed on the techniques used to solve problems of motivation, goals, and aspirations.

### **PSY 132 General Psychology**

IAI – S6 900

3 Hours

Prerequisites: None

3 hours weekly (3-0)

General Psychology is an introductory course including the study of scientific research and application in regard to the psychological areas of affect, behavior, and cognition. This course is offered in the belief that an introduction to the many facets of psychology is an important part

of anyone's general educational development. Therefore, a general goal of this course is to prepare students to be informed critical thinkers of contemporary psychology, as well as to provide a foundation for further study in psychology.

### **PSY 132H General Psychology (Honors)**

1 Hour

Prerequisites: PSY 132 and consent of instructor

1 hour weekly (1-0)

A course designed for honor students interested in meeting with a small group for discussion of psychological topics, field trips, and independent readings.

### **PSY 200 Social Psychology**

IAI – S8 900, IAI – PSY 908

3 Hours

Prerequisites: PSY 132

3 hours weekly (3-0)

Social Psychology is an introductory course in the study of human group behavior. Research and theory are integrated in regard to the study of attitude formation, social perception and cognition, group processes and interpersonal relations, and social influences on behavior.

*This course is also offered as part of a study abroad program. Contact the Coordinator of International Education for more information.*

### **PSY 203 Adolescent Psychology**

IAI – S6 904

3 Hours

Prerequisites: PSY 132

3 hours weekly (3-0)

Adolescent Psychology examines interrelated bio-logical, cognitive, social, and emotional aspects of development during adolescence based on a life-span perspective. Topics include family relationships, peer relations, the school experience, career choice and work, the college experience, identity formation, adjustment, moral development, and the development of intimacy and sexuality. The course concludes with a focus on adolescents at risk. Course content is based on theory, empirical research, and application.

### **PSY 262 Child Psychology**

IAI – S6 903

3 Hours

Prerequisites: PSY 132

3 hours weekly (3-0)

A study of the factors affecting the development of the child from conception to adolescence. Genetic, prenatal, familial, social, and cultural influences that interact to affect the child's physical, cognitive, linguistic, and social development will be examined.

### **PSY 265 Introduction to Special Education**

3 Hours

Prerequisites: PSY 132 & EDC 202

3 hours weekly (3-0)

An introduction to the education and characteristics of exceptional people. This course surveys the history and educational

practices in special education, including legislation and litigation. All classifications of special education, mental retardation, learning disabilities, hearing-impaired, etc., will be discussed. The course also covers the effects of disability conditions on learning situations.

*Students may be required to pass a background check in order to fulfill classroom observation requirements.*

### **PSY 270 Abnormal Psychology**

IAI – PSY 905

3 Hours

Prerequisites: PSY 132 or equivalent

3 hours weekly (3-0)

Abnormal Psychology is an introduction to the definition, understanding, and diagnosis of psycho-logical disorders. Historical, cultural, empirical, and theoretical perspectives are combined to address etiology, assessment, treatment, and prevention.

### **PSY 285 Psychology of Personality**

3 Hours

Prerequisites: PSY 132

3 hours weekly (3-0)

A study of the major perspectives on personality, integrating theory and research, and covering analytic and neo-analytic approaches along with cognitive, growth-humanistic, trait, behavioral/social learning, family systems and community psychology views on development, assessment, treatment and prevention.

## **Social Work (SOCW)**

### **SOCW 275 Introduction to Social Work**

3 Hours

Prerequisites: None

3 hours weekly (3-0)

Introduction to Social Work examines the relationships among social, cultural, political, and economic factors in the history and practice of social welfare. The range of roles and applications of modern social work practice will be examined with particular emphasis on community based delivery systems.

## **Sociology (SOC)**

### **SOC 133 Principles of Sociology**

IAI – S7 900

3 Hours

Prerequisites: None

3 hours weekly (3-0)

An introductory course examining the three dimensions of society (culture, structure, social processes) and the three major theoretical perspectives (symbolic interactionist, functionalist, and conflict), as well as demonstrating their use as tools for understanding and researching both personal experience and larger social patterns. Topics addressed over the course of the semester include popular culture, the global economy, inequality, cross-cultural differences, deviance, socialization, and social change.

### **SOC 221 Race and Ethnicity**

IAI – S7 903D

3 Hours

Prerequisites: None

3 hours weekly (3-0)

Comparative analysis of racial and ethnic groups: examining elements of group identity; social movements; government policy; individual and institutional discrimination; and related social problems.

### **SOC 263 Marriage & the Family**

IAI – S7 902

3 Hours

Prerequisites: None

3 hours weekly (3-0)

A sociological examination of mate selection and marriage, family life, marital adjustments, and the place of the family in American culture. Cross-cultural comparisons will consider child-rearing, communal living, the latest trends, and predictions about the future.

### **SOC 264 Social Problems**

IAI – S7 901

3 Hours

Prerequisites: SOC 133

3 hours weekly (3-0)

A review and application of basic sociological concepts, theories, and methods to examine contemporary social problems. Students discuss and analyze selected contemporary social problems along with a range of solutions to these problems. Special features of the class include the use of the World Wide Web in the research process, examination of cultural representations of social problems, and local focus on social problems.

*This course is also offered as part of a study abroad program. Contact the International Education Coordinator for more information.*

## Spanish (SPN)

### SPN 101 Elementary Spanish I

4 Hours

Prerequisites: None

4 hours weekly (4-0)

Emphasis on grammar, pronunciation, vocabulary, and oral use of the language. Language laboratory is required.

*This course is also offered as part of a study abroad program. Contact the Coordinator of International Education for more information.*

### SPN 102 Elementary Spanish II

4 Hours

Prerequisites: SPN 101 or consent of instructor

4 hours weekly (4-0)

Different activities and techniques will be used to achieve the course objectives. After taking Spanish 101, the activities will be expanded on more vocabulary, dialogues, and conversations. The grammatical structures of the language will be studied on new topics such as preterit and imperfect tenses using different types of exercises.

*This course is also offered as part of a study abroad program. Contact the Coordinator of International Education for more information.*

### SPN 201 Intermediate Spanish I

4 Hours

Prerequisites: SPN 102 or consent of instructor

4 hours weekly (4-0)

Students must have taken Spanish 102 in order to move to the Intermediate Spanish 201. The course will be devoted to finalize the basic grammatical structures of the language. Past participles, present perfect tense, past perfect

tense, conditionals, uses of the subjunctive with different verbs and the like. In addition, an oral-conversation exercise will be part of the course.

*This course is also offered as part of a study abroad program. Contact the Coordinator of International Education for more information.*

### SPN 202 Intermediate Spanish II

IAI – H1 900

4 Hours

Prerequisites: SPN 201 or consent of instructor

4 hours weekly (4-0)

The second section of the Intermediate Spanish requires that the students had taken Spanish 201. In this section, the course will consist of a summary of the main grammatical aspects of the language. There will be a general use combining the four skills (listening, speaking, reading, and writing) to achieve the goal of the course. The whole section will be taught mainly in Spanish.

*This course is also offered as part of a study abroad program. Contact the Coordinator of International Education for more information.*

## **Surgical Technology (STP)**

### **STP 121 Introduction to Surgical Technology**

3 Hours

Prerequisites: Acceptance into the Surgical Technology Program, BIO 205 or 206 with C or better.

3 hours weekly (3-0)

This course introduces the student to the broad field of surgical technology. It includes Orientation to Surgical Technology, Standards of Conduct, The Surgical Patient, Special Populations, and Physical Environment and Safety Standards.

### **STP 122 Principles and Practices of Surgical Technology**

7 Hours

Prerequisites: STP 121, BIO 205 or 206

9 hours weekly (4-6)

This course introduces the student to the practice of surgical technology. The focus is on skills that are specifically those of the scrub role and the circulator role. The student will demonstrate the proper and safe execution of procedures and instruments and equipment. Adequate laboratory time for the practice and testing of the skills is required.

### **STP 123 Surgical Procedures I**

2 Hours

Prerequisites: STP 122, 127, BIO 205 and 206

3 hours weekly (1-2)

This course is designed to prepare students for clinic practice training. Instruction introduces students to the various surgical specialties.

### **STP 125 Clinical Rotation in Surgical Technology I**

2.5 Hours

Prerequisites: STP 122, 127, BIO 205 and current CPR certification

7.5 hours weekly (0-7.5)

This course introduces the student to the operating room and its routine. This course functions to expand knowledge gained in STP 122 and supports the knowledge being gained in Surgical Procedures I. This course is offered pass/fail.

### **STP 127 Pharmacology for Health Professions**

3 Hours

Prerequisites: STP 121

3 hours weekly (3-0)

This course provides basic knowledge of the most commonly used medications in the operating room. Commonly prescribed medications such as anesthetics, diuretics, gastric drugs, hormones, antibiotics, diagnostic agents, and blood and fluid replacements will be discussed.

### **STP 225 Surgical Procedures II**

5 Hours

Prerequisite: STP 123 & BIO 226

6 hours weekly (4-2)

This course is designed to build on the concepts from Surgical Procedures I. Surgical anatomy of the body and instrumentation that pertains to the system of study. Topics include ophthalmic surgery, ears, and nose and throat surgery, oral surgery, plastic surgery, orthopedic surgery and peripheral vascular surgery.

### **STP 226 Clinical Rotation II**

5 Hours

Prerequisites: STP 123, STP 125

15 hours weekly (0-15)

This course is continuation of STP 125. This course functions to expand knowledge gained in Introduction to Surgical Technology, Principles and Practice and Practices of Surgical Technology and Surgical Procedures I. It also supports the knowledge being gained in Surgical Procedures II.

### **STP 227 Surgical Procedures III**

5 hours

Prerequisite: STP 225

6 hours weekly (4-2)

The course is designed to build on concepts from Surgical Procedures II. Surgical anatomy of the body and instrumentation that pertains to the systems of study. Topics include thoracic and pulmonary surgery, cardiac surgery, pediatric surgery, neurosurgery, emergency trauma surgery, and disaster preparedness and response.

### **STP 228 Clinical Rotation III**

5 hours

Prerequisite: STP 225, STP 226

15 hours weekly (0-15)

This course is continuation of STP 226. This course functions to expand knowledge gained in Introduction to Surgical Technology, Principles and Practice and Practices of Surgical Technology, Surgical Procedures I and Surgical Procedures II. It also supports the knowledge being gained in Surgical Procedures III.



## **Surveying (SRV)**

### **SRV 101 Surveying I**

3 Hours

Prerequisites: None

3 hours weekly (3-0)

This is a beginning course in surveying designed to introduce the student to the principles and equipment of surveying, as well as the profession of surveying.

## Theater (THE)

### THE 113 Theater Appreciation

IAI – F1 907

3 Hours

Prerequisites: None

3 hours weekly (3-0)

An introductory survey of theatre/drama as a performing art form. Includes study and analysis of historical, social, esthetic, and technical aspects of traditional and contemporary theatrical/dramatic expression.

*This course is also offered as part of a study abroad program. Contact the Coordinator of International Education for more information.*

### THE 119 Stagecraft I

3 Hours

Prerequisites: None

5 hours weekly (1-4)

Advanced information relating to theatrical production. Intense applied training in set design, set construction, set decoration, lighting design, lighting application, sound design, sound application and special effects, makeup design, hair style design, costume design, publicity, house management, and advanced acting techniques.

### THE 120 Stagecraft II

3 Hours

Prerequisites: None

5 hours weekly (1-4)

Continuation of Stagecraft I. Intense applied training in set design, set construction, set decoration, lighting design, lighting application, sound design, sound application and special effects, makeup design, sound application and

special effects, makeup design, hair style design, costume design, publicity, house management, and advanced acting techniques.

### THE 124 Fundamentals of Acting I

IAI – TA 914

3 Hours

Prerequisites: None

3 hours weekly (3-0)

The purpose of this course is to provide students with a basic approach to the fine art of acting and to allow them to develop their own technique through active participation.

### THE 125 Fundamentals of Acting II

3 Hours

Prerequisites: THE 124

3 hours weekly (3-0)

A continuation of Fundamentals of Acting I. An intensive approach to acting that will prepare students for a variety of acting situations.

### THE 128 Theater Practicum

1 Hour Each

Prerequisites: Permission of the director. Students will not be permitted to register for THE 128 until selected for a play or for a technical position that the director believes is appropriate for credit

1 hour weekly (1-0)

This is a course designed to increase a student's proficiency in the preparation and presentation of theatrical productions. Credit is awarded for performing in or working on major College productions. Students may acquire no more than four hours of credit total and no more than two hours of credit per year.

**THE 224 Play Analysis for Production**

3 hours

Prerequisites: None

3 hours weekly (3-0)

An introductory exploration of the relationships between dramatic text and the play in performance. Representative plays are studied in their genre, historical and social contexts. An emphasis is placed on basic structural terminology and methodology.

**THE 225 Performance of Literature**

3 hours

Prerequisite: None

3 hours weekly (3-0)

The study and performance of literature, such as essays, letters, novels, poetry, and short stories, with an emphasis on using voice and movement to interpret the works and communicate that interpretation to an audience.

## **Travel and Tourism (TRT)**

### **TRT 152 Safety & Sanitation**

1 Hour

Prerequisites: None

1 hour weekly (1-0)

This course is designed to provide students with the educational background needed to assist them in passing the Illinois Food Sanitation Examination, which is necessary for employees in food service establishments. Topics included are these: sanitation, health, microbiology, safe food handling practices, and the sanitation regulations and standards of the State of Illinois. The student's knowledge will be tested during the last class period through a state-administered examination.

## **Volunteerism (VOL)**

### **VOL 101 Volunteerism**

1-4 Hours

Prerequisites: Agencies receiving volunteer services reserve the right to set requirements. The requirements will be met through a course, seminar, orientation, or criminal background/drug check. Students must successfully complete 12 hours of college credit prior to enrollment.

Hours weekly (variable)

This internship course is a form of service learning. The broad objective is to meet the students' needs that are not covered in regular classes. They will seek to achieve real objectives for the community and an understanding of service learning. They will also develop work place skills through this experience. In this process, students link personal and social development with academic and cognitive development. The student will be assigned to an agency, community action group, or educational facility based upon his/her skills, knowledge, and general interests. The internship site chosen should apply toward the student's field of study.

## Welding (WEL)

### **WEL 120 OXYFUEL WELDING, CUTTING, AND BRAZING**

3 Hours

Prerequisites: None

5 Hours Weekly (1-4)

This course is a study of the theory and operation of oxy-acetylene welding and cutting, brazing, and plasma cutting. Students learn to produce welds and braze joints in the flat, horizontal, vertical, and overhead positions in accordance with American Weld Society (AWS) standards used in industry and construction. Introduces cutting methods of beveling, piercing, and cutting to prescribed sizes.

### **WEL 121 SMAW (STICK) PLATE WELDING I**

3 Hours

Prerequisites: None

5 Hours Weekly (1-4)

This course is a study of Shielded Metal Arc Welding (SMAW) theory and practice in preparation and welding of flat and horizontal position steel plate joints. Students learn to produce stringer beads, weaves, fillet, and groove welds in the flat and horizontal positions. Safety, electrode selection, American Welding Society (AWS) weld symbols, equipment setup and operation, inspection and testing are included.

### **WEL 122 GMAW (MIG) PLATE WELDING**

3 Hours

Prerequisites: None

5 Hours Weekly (1-4)

This course is a study of Gas Metal Arc Welding (GMAW) theory and practice in the preparation and welding of mild steel, aluminum, and

stainless steel in all positions. Safety, equipment components, nozzle setup, torch angles, travel direction, weave motion, bead sequence, and out-of-position welding are emphasized. Setup and operation of the GMAW welder with various conditions for mild steel. The student will use the pound gun to weld aluminum and stainless steel in all positions.

### **WEL 123 SMAW (STICK) PLATE WELDING II**

3 Hours

Prerequisites: WEL 121

5 Hours Weekly (1-4)

This course is a study of Shielded Metal Arc Welding (SMAW) theory and practice in preparation and welding of vertical and overhead position steel plate joints. Students learn to produce stringer and weave beads with varying techniques. Safety, electrode selection, AWS weld symbols, equipment setup and operation, inspection and testing are included.

### **WEL 124 GTAW (TIG) WELDING I**

3 Hours

Prerequisites: None

5 Hours Weekly (1-4)

This course is a study of Gas Tungsten Arc Welding (GTAW) theory and practice in preparation and welding of mild steel plate in all positions. Safety, equipment components, torch set-up, travel direction, AWS weld symbols, shielding gases, torch and filler rod angles, weave and stringer techniques will be emphasized.

### **WEL 125 WELD TESTING AND INSPECTION**

4 Hours

Prerequisites: WEL 121 and WEL 123(CONCURRENT)

6 Hours Weekly (2-4)

This course is the study of Shielded Metal Arc Welding (SMAW) theory and practice in the preparation and welding of mild steel plate for the American Welding Society (AWS) certification test in the flat, horizontal, vertical, and overhead position. Safety, joint preparation, AWS code and specifications, AWS inspection standards and evaluation. The successful student will be able to pass the qualification test required by the industry and construction.

### **WEL 126 SMAW (STICK) PLATE WELDING III**

3 Hours

Prerequisites: WEL 121 and WEL 123

5 Hours Weekly (1-4)

This course is a study of the theory and practice in preparation and welding of vertical and overhead position steel plate joints with the SMAW process using large diameter electrodes. Safety, electrode selection, American Welding Society (AWS) weld symbols, equipment setup and operation, inspection and testing are included. The successful student will be able to pass the qualification test required by the industry and construction.

### **WEL 127 WELDING AND METAL FABRICATION**

3 Hours

Prerequisites: WEL 121 or WEL 122

5 Hours Weekly (1-4)

This course is a study of welding and metal fabrication practices used in industry and construction. Hands-on lab exercises include assembly of assigned projects using safety, part and piece layout, fit-up, weld sequencing, and blueprints.

### **WEL 128 PIPE WELDING**

4 Hours

Prerequisites: WEL 121, WEL 123, and WEL 126

6 Hours Weekly (2-4)

This course is a study of pipe joint preparation and welding in accordance with American Welding Society (AWS) and American Society of Mechanical Engineers (ASME) standards used in industry and construction. Define, describe, and identify various pipe welding codes and procedures. Pipe joints are prepared, welded, and tested in accordance with AWS D.1.1 code.

### **WEL 129 GTAW (TIG) WELDING II**

3 Hours

Prerequisites: Concurrent enrollment with WEL124

5 Hours Weekly (1-4)

This course is a study of Gas Tungsten Arc Welding (GTAW) theory and practice in preparation and welding of aluminum and stainless steel in all positions. Safety, equipment components, torch set-up, travel direction, AWS weld symbols, shielding gases, torch and filler rod angles, weave and stringer techniques will be emphasized.