

# Early College <sup>2023-24</sup>

Dual Credit | Advanced Placement (AP) Credit | Concurrent Enrollment



# Make a Plan

Students, in collaboration with their families and counselors, use this catalog to make a plan for getting a head start on college while they're in high school.

Making a plan will help you get the most out of your college course work. Students who pursue college credit while in high school are more likely to earn a college degree. Taking the time to think about your long term college goals while you select your Early College courses will help you go further.

Through Early College you can take:

- Dual credit courses at your high school
- Concurrent enrollment courses at Oakton, or
- Advanced Placement (AP) classes

With the right combination of courses, you can even graduate high school with an associate degree or certificate!



This catalog walks you through our Early College program and shows you where advanced placement credit, concurrent enrollment, and dual credit courses fit into our degree and certificate programs.

Plan to earn a college certificate that qualifies you for a job while you're still in high school!

For example, read about the **Basic Nurse Assistant Training Program** on page 32.

**Dual Credit** ..... **pages 4-6**

Earn college and high school credit at the same time by taking a dual credit class at your high school.

**Concurrent Enrollment** ..... **pages 7-11**

Take college courses at an Oakton campus during your junior and senior years.

**Advanced Placement (AP) Credit** ..... **page 12**

Apply your high school AP credits toward your degree.

**Degree and Certificate Pathways** ..... **pages 13-31**

With advanced planning, you can follow an academic pathway to make the most of your Early College credit.

**Early College Planning** ..... **pages 33-34**



# Dual Credit

Oakton's dual credit program allows you to earn college credit and high school credit at the same time. You'll take the course at your high school. Make a plan to connect your courses to academic pathways. The list below shows you the available dual credit courses and leads you to the pathways where those courses complete requirements.

Dual Credit courses are identified in bold green throughout this brochure.

## Early College Dual Credit Offerings

Oakton has partnerships with every public school in our district and two private schools to offer dual credit courses. Below, you'll find a list of the dual credit courses offered at each participating high school. The course numbers are Oakton's numbers; the courses may be named differently in your high school course catalog. Meet with your high school counselor or identified dual credit liaison to enroll. Next time you pick your high school courses use this catalog to pick a college course too. The latest offerings can be found at [www.oakton.edu/earlycollege](http://www.oakton.edu/earlycollege).

### EVANSTON TOWNSHIP HIGH SCHOOL

ART 115 Beginning Photography  
CAD 105 Industrial Design Engineering  
CAD 210 Industrial Design Techniques  
CAD 220 Introduction to Building Information Modeling - Revit  
GRD 101 Introduction to Visual Communication  
HIT 104 Medical Terminology  
MAT 125 General Education Mathematics  
MAT 140 College Algebra  
MAT 252 Calculus III  
MAT 260 Introduction to Linear Algebra  
MFG 111 Introduction to Computer Integrated Manufacturing (CIM)

### GLENBROOK NORTH HIGH SCHOOL

ACC 153 Principles of Financial Accounting  
CAD 105 Industrial Design Engineering  
CAD 116 Basic AutoCAD  
CAD 117 Intermediate AutoCAD  
CAD 210 Industrial Design Techniques  
ECE 102 Child Growth and Development  
MFG 120 Introduction to Welding  
MFG 125 Advanced Welding

### GLENBROOK SOUTH HIGH SCHOOL

ACC 153 Principles of Financial Accounting  
CAD 105 Industrial Design Engineering  
CAD 116 Basic AutoCAD  
CAD 117 Intermediate AutoCAD  
CAD 210 Industrial Design Techniques  
ECE 102 Child Growth and Development  
ELT 221 Digital Circuit Fundamentals  
HIT 103 Introduction to the Medical Language  
LAE 135 Forensics I  
MAT 252 Calculus III  
MAT 260 Introduction to Linear Algebra

### LOYOLA ACADEMY

HIS 120 United States History Since 1945

### MAINE EAST

ACC 153 Principles of Financial Accounting  
ART 115 Beginning Photography  
ATA 102 Introduction to Automotive Technology  
BIO 114 Basic Human Anatomy and Physiology  
BNA 100 Basic Nurse Assistant Training  
BNA 105 Basic Nurse Assistant Job Training  
CAD 105 Industrial Design Engineering  
CAD 210 Industrial Design Techniques  
CAD 220 Introduction to Building Information Modeling - Revit  
CNS 105 Networking Essentials  
CNS 170 Principles of Information Security  
EAS 101 Physical Geology  
EGL 101 Composition I  
EGL 102 Composition II  
HIT 104 Medical Terminology  
MAT 252 Calculus III  
MAT 262 Ordinary Differential Equations  
MFG 110 Introduction to Machining  
MFG 111 Introduction to Computer Integrated Manufacturing (CIM)  
MGT 160 Small Business Management  
SPE 103 Effective Speech

### MAINE SOUTH

ACC 153 Principles of Financial Accounting  
ART 115 Beginning Photography  
BIO 114 Basic Human Anatomy and Physiology  
BNA 100 Basic Nurse Assistant Training  
BNA 105 Basic Nurse Assistant Job Training  
CAD 105 Industrial Design Engineering  
CAD 116 Basic AutoCAD  
CAD 210 Industrial Design Techniques  
CAD 220 Introduction to Building Information Modeling - Revit  
CNS 105 Networking Essentials  
CNS 170 Principles of Information Security  
EAS 101 Physical Geology  
EGL 101 Composition I  
EGL 102 Composition II

HIT 104 Medical Terminology  
 MAT 125 General Education Mathematics  
 MAT 252 Calculus III  
 MAT 262 Ordinary Differential Equations  
 MFG 102 Industrial Drafting and Design  
 MGT 160 Small Business Management  
 SPE 103 Effective Speech

**MAINE WEST**

ACC 153 Principles of Financial Accounting  
 ART 115 Beginning Photography  
 ATA 102 Introduction to Automotive Technology  
 BIO 114 Basic Human Anatomy and Physiology  
 BNA 100 Basic Nurse Assistant Training  
 BNA 105 Basic Nurse Assistant Job Training  
 CAD 105 Industrial Design Engineering  
 CAD 116 Basic AutoCAD  
 CAD 220 Introduction to Building Information Modeling - Revit  
 EAS 101 Physical Geology  
 EGL 101 Composition I  
 EGL 102 Composition II  
 HIT 104 Medical Terminology  
 MFG 102 Industrial Drafting and Design  
 MFG 110 Introduction to Machining  
 MFG 111 Introduction to Computer Integrated Manufacturing (CIM)  
 MGT 160 Small Business Management  
 SPE 103 Effective Speech

**MORTON HIGH SCHOOLS (EAST/WEST)**

MLT 125 Pharmacy Technician

**MUSLIM COMMUNITY CENTER (MCC) ACADEMY**

EGL 101 Composition I  
 EGL 102 Composition II  
 HIS 131 Western Civilization to 1650  
 MAT 250 Calculus I  
 PHY 131 College Physics I  
 PSY 101 Introduction to Psychology  
 SOC 101 Introduction to Sociology

**NEW TRIER**

ART 115 Beginning Photography  
 ATA 102 Introduction to Automotive Technology  
 CAD 105 Industrial Design Engineering  
 CAD 107 Introduction to 3D Printing  
 CAD 116 Basic AutoCAD  
 CAD 117 Intermediate AutoCAD  
 CAD 134 Basic AutoCAD for Interior Design  
 CAD 210 Industrial Design Techniques  
 CAD 220 Introduction to Building Information Modeling - Revit  
 CAD 224 Advanced Building Information Modeling - Revit  
 ELT 114 Residential Wiring  
 ELT 221 Digital Circuit Fundamentals  
 MFG 102 Industrial Drafting and Design

**NILES NORTH**

ATA 102 Introduction to Automotive Technology  
 BNA 100 Basic Nurse Assistant Training  
 BNA 105 Basic Nurse Assistant Job Training  
 CAD 105 Industrial Drafting and Design  
 CAD 107 Introduction to 3D Printing  
 CAD 210 Industrial Design Techniques  
 CAD 220 Introduction to Building Information Modeling - Revit  
 ECE 102 Child Growth and Development  
 ELT 221 Digital Circuit Fundamentals  
 HIT 104 Medical Terminology  
 MFG 102 Industrial Drafting and Design  
 MFG 110 Introduction to Machining  
 MFG 111 Introduction to Computer Integrated Manufacturing (CIM)  
 MFG 120 Introduction to Welding  
 MFG125 Advanced Welding

**NILES WEST**

ATA 102 Introduction to Automotive Technology  
 BNA 100 Basic Nurse Assistant Training  
 BNA 105 Basic Nurse Assistant Job Training  
 CAD 105 Industrial Drafting and Design  
 CAD 107 Introduction to 3D Printing  
 CAD 210 Industrial Design Techniques  
 CAD 220 Introduction to Building Information Modeling - Revit  
 ECE 102 Child Growth and Development  
 ELT 221 Digital Circuit Fundamentals  
 HIT 104 Medical Terminology  
 MFG 102 Industrial Drafting and Design  
 MFG 110 Introduction to Machining  
 MFG 111 Introduction to Computer Integrated Manufacturing (CIM)  
 MFG 120 Introduction to Welding  
 MFG125 Advanced Welding

## Career and Technical Education (CTE)

Many of Oakton's dual credit courses are career and technical education courses, which are great for students seeking the opportunity to pursue a technical career or enhance their degree with technical training. As you'll see in the list of degree and certificate programs below, you can earn credit toward credentials in many fields, from Automotive Technology to Graphic Design to Welding. Degrees marked with an asterisk (\*) below are transferable.

<b>Accounting</b> .....	<b>13-14</b>	<b>Graphic Design</b> .....	<b>23-24</b>
Accounting Associate A.A.S.*		Graphic Design A.A.S.	
Accounting Associate Certificate		Photography Certificate	
<b>Automotive Technology</b> .....	<b>14-16</b>	<b>Health Careers</b> .....	<b>24-26</b>
Automotive Technology A.A.S.*		Health Information Technology A.A.S.*	
Automotive Electrical Systems Certificate		Medical Coding and Billing Certificate	
Automotive Engines Certificate		Basic Nurse Assistant Training Certificate	
Automotive Engine Performance and Emissions Certificate		Medical Assistant Certificate	
Automotive Heating and Air Conditioning Certificate		Medical Laboratory Technology A.A.S.*	
Automotive Transmission and Powertrain Certificate		Phlebotomy Certificate	
Automotive Under Car Certificate		Physical Therapist Assistant A.A.S.*	
<b>Computers and Information Systems</b> .....	<b>16-19</b>	<b>Law Enforcement and Criminal Justice</b> .....	<b>27</b>
Computers and Information Systems A.A.S.*		Law Enforcement and Criminal Justice A.A.S.*	
Computer Programmer A.A.S.		Forensics Certificate	
Computers Programmer Certificate		Private Security Certificate	
Internet and Computer Core (IC3) Certificate		<b>Manufacturing Technology</b> .....	<b>28-29</b>
Management of Information Systems (MIS) Certificate		Supply Chain Automation A.A.S.*	
PC Support Specialist Certificate		Advanced Mechatronics A.A.S. Pathway	
<b>Computer Networking and Systems</b> .....	<b>19-20</b>	Advanced Manufacturing Certificate Pathway	
Computer Networking and Systems A.A.S.		Welding Certificate	
Network Security Administration A.A.S.		Advanced CNC Certificate Pathway	
Network Security Administrator Certificate		Production Technician Certificate	
Windows Server Administration Certificate		<b>Mechanical Design/CAD</b> .....	<b>30-31</b>
Windows Support Technician Certificate		Mechanical Design/CAD A.A.S.	
<b>Early Childhood Education</b> .....	<b>20-22</b>	Mechanical Design/CAD Certificate	
Early Childhood Education A.A.S.*		Industrial Design Engineering Certificate	
Basic Early Childhood Education Certificate		Computer-Aided Design Certificate	
Advanced Early Childhood Education Certificate		CAD Interior Design Certificate	
Basic Infant Toddler Certificate		General Design Certificate	
Advanced Infant Toddler Certificate		Revit – Building Information Modeling (BIM) Certificate	
Basic Family Child Care Provider Certificate		<b>Technical Communication</b> .....	<b>31</b>
Advanced Family Child Care Provider Certificate		Technical Communication Certificate	
Early Childhood Education Administration Certificate			
<b>Electronics and Computer Technology</b> .....	<b>22-23</b>		
Electronics and Computer Technology A.A.S.			
Electronics Technology Certificate			
Electronics Computer Technician Certificate			
Home/Office Technology Integrator Certificate			

\*Degrees are transferable



### Did you know?

More than half a million Illinois high school students have earned college credit while in high school through dual credit programs since 2010.

## Baccalaureate Transfer Programs and Pre-Majors

Do you have a vision for your college education and love a good plan? One benefit of starting at Oakton if you plan to earn a four-year degree is the opportunity to pursue our specially designed transfer programs and pre-majors. **Students pursuing coursework through Early College may also apply their credit to these transfer-ready programs.** And here's more good news: All of the courses on the IAI list count toward these transfer programs. Our goal is to make sure your transfer experience is as seamless as possible.

Here's our full list of bachelor degree transfer programs and pre-majors. Learn more at [www.oakton.edu/transfer](http://www.oakton.edu/transfer).

Associate in Arts (A.A.)	Associate in Fine Arts (A.F.A.) – Art – Degree and Pre-major
Anthropology Pre-major	Associate in Fine Arts (A.F.A.) - Music - Degree and Pre-Major
Biology Pre-major for Associate in Arts	Associate in General Studies (A.G.S.)
Business/Accounting Pre-major	Paraprofessional Educator Pathway
Computer Science Pre-major for Associate in Arts	Associate in Science (A.S.)
Economics Pre-major	Biology Pre-major for Associate in Science
Elementary Education Pre-major	Chemistry Pre-major
English Pre-major	Computer Science Pre-major for Associate in Science
Environmental Studies Pre-major	Earth Science Pre-major
Exploring Humanities Pre-major	Mathematics Pre-major
Geography Pre-major	Physics Pre-major
Global Studies Pre-major	Associate of Science in Engineering (A.S.E.) – Degree and Pre-major
History Pre-major	General Education Core Curriculum (GECC)
Jewish Studies Pre-major	Special Areas of Study and Concentrations
Law Enforcement and Criminal Justice Pre-major	Environmental Studies Concentration
Modern Languages Pre-major	Global Studies Concentration
Peace and Social Justice Studies Pre-major	Great Books
Philosophy Pre-major	Honors at Oakton
Political Science Pre-major	Jewish Studies Concentration
Psychology Pre-major	Nanotechnology Concentration
Religious Studies Pre-major	Peace and Social Justice Studies Concentration
Secondary Education – Humanities, Behavioral/Social Sciences or Arts Pre-major	Theater Concentration
Secondary Education – Science or Math Pre-major	Women, Gender and Sexuality Studies Concentration
Social Sciences Pre-major	Writing Intensive Concentration
Sociology Pre-major	
Special Education Pre-major	
Speech Pre-major	
Theater Pre-major	
Women, Gender, and Sexuality Studies Pre-major	



### Did you know?

Concurrent enrollment allows you to take any course in Oakton's catalog, as long as you meet the prerequisites.

# Concurrent Enrollment

## Add a concurrent enrollment course to your AP and dual credit choices.

Make the most of your time as a high school student enrolled at Oakton by selecting classes that make sense for your future plans. Whether you're exploring to discover a future college major or you already have a clear path in mind, it's a good idea to start with one of our eight areas of interest as you select your concurrent enrollment classes.

High Schools will need to approve the course to count as a high school graduation requirement. Course offerings change each semester. Make sure to register early so you can get the meeting time that works for your schedule. Not sure? Contact [earlycollege@oakton.edu](mailto:earlycollege@oakton.edu) for help.

### Fine, Performing and Applied Arts

**Art 110 History of Photography**  
**Art 117 Digital Photography**

Oakton has a transfer agreement with Columbia College Chicago in which these courses count for credit! Plus, these classes will give you a strong foundation in basic digital art skills, which will help you across disciplines.

### Computer and Information Technology

**CSC 241 Java Data Structures**  
**CNS 105 Networking Essentials**  
**CIS 101 Introduction to Computer Information Systems** (also available as AP Computer Science Principles)

Already have advanced math or computing classes under your belt and want to dive deeper into college courses? In Computer Science you will find courses that take you to the next level, from *Cybersecurity* to *Programming languages*.

### Health Careers and Nursing

**BIO 101 Introduction to Life Science**  
**BIO 121 General College Biology I** (also available as AP Biology)  
**PHY 101 Applied Physics**  
**PHY 131 College Physics I** (also available as AP Physics 2: Algebra-Based)

Prerequisite: MAT 122 Trigonometry or concurrent enrollment in MAT 122 or consent of instructor.

Fulfill your Life Science GE requirement. If you know you want a STEM or Health Career, start that path while in high school with BIO 121. For advanced HS students who are going to pursue a science major, start your study of Physics.

### Humanities and Languages

**EGL 129 Introduction to Fiction** (also available as AP English Literature and Composition)

**HUM 161 Global Cinema**  
**PHL 106 Ethics**

Many popular majors at four-year schools require general education courses in the humanities. These are just a few of the most popular options, and selections change each semester.

### Manufacturing, Facilities and Automotive

**ATA 111 Automotive Electrical Systems I**  
**CAD 118 Advanced Auto CAD**, for the Computer-Aided Design Certificate and  
**MFG 101 Occupational Safety**  
**MFG 102 Industrial Drafting and Design**  
**MFG 144 Introduction to CNC Programming**, for the Advanced CNC Certificate.

Check out the many Automotive and Computer Integrated Manufacturing (CIM) certificates.

### Public and Professional Business Services

**Business:**  
**ACC 153 Principles of Financial Accounting**  
**BUS 101 Introduction to Business**  
**BUS 107 Business Ethics**

For students who want to transfer into a Bachelors in Business, these courses are typically among the prerequisites that you will need to take before you can take upper-level Business classes.

**ECO 201 Principles of Macroeconomics** (also available as AP Macroeconomics)

**ECO 202 Principles of Microeconomics** (also available as AP Microeconomics)

**Law Enforcement:**

**LAE 101 Introduction to Criminal Justice**  
This is a great way to get your career in law enforcement started, and we have many sections online to serve our student's busy schedules.

**Fire Science:**

**FIR 101 Introduction to Fire Science**  
Start your pursuit of a career as a firefighter while you are still in high school through Oakton's Concurrent Enrollment Program.

### Science, Engineering, Technology and Math

**BIO 106 Introduction to Environmental Science** (also available as AP Environmental Science)

**BIO 114 Basic Human Anatomy and Physiology** (great choice for Health Careers)  
**CHM 121 General College Chemistry 1** is a required course in the Engineering Pathway to UIUC (also available as AP Chemistry)

**MAT 250 Calculus 1 or higher** is required in the Engineering pathway to UIUC.

Take a college-level math from *Algebra* to *Discrete Math* to *Calculus*, most pathways require a math course.

### Social and Behavioral Science and Education

**Early Childhood Education:**  
**ECE 102 Child Growth and Development**, and follow that with **ECE 104 Introduction to Early Childhood Education**

**K-12 Education:**  
**EDN 101 Introduction to Education**  
This course requires 15 hours in local K-12 settings. This course will transfer into teaching programs throughout Illinois.

**HIS 216 History of Modern China**  
**SSC 201 Introduction to Global Studies**  
**GEG 120 World Regional Geography**

Fulfill an IAI/General Education requirement with behavioral and social science courses.

**Not quite sure which area of interest is best for you?** We always recommend the following courses as they are requirements for most programs at Oakton as well as at four-year colleges across the country. Make sure to check with your school guidance counselor—many high schools offer these courses through dual credit!

**EGL 101 Composition 1**  
**SPE 103 Effective Speech**  
**MAT 125 General Education Math or MAT 131 Elementary Statistics or MAT 250 Calculus 1**



If you're a high school junior or senior and have a minimum cumulative grade point average of C or higher, you may be eligible to take one college-level course at Oakton each semester. These concurrent enrollment courses are taught by Oakton faculty on campus (and often, are available online). You'll be taking a college-level course with current Oakton students in addition to your high school course load. Your credit will go onto an Oakton transcript that you can apply toward your Oakton degree or certificate or transfer to a four-year college or university. This is a great way to explore your interests or start earning credit toward a degree pathway or pre-major. *All Oakton courses can be taken as concurrent enrollment pending all prerequisites are met.*

Earn Credit Toward Your General Education Requirements. Your high school may accept these credits as high school credits too; be sure to inquire with your high school counselor.

Students who start at Oakton and plan to transfer to a four-year institution choose from general education courses that are part of the Illinois Articulation Initiative. These courses are accepted as transfer credit at 100+ participating Illinois colleges and universities. A full listing of institutions can be found at [itransfer.org](http://itransfer.org). Several of these courses can also be earned through advanced placement or dual credit.

## Illinois Articulation Initiative (IAI) General Education Courses

Students pursuing an associate degree leading to transfer (A.A., A.S., A.S.E., or A.F.A.) must select their general education courses from those listed below with IAI codes. These courses are part of the Illinois Articulation Initiative general education core and will be accepted by all Illinois public and private colleges and universities subscribing to the Initiative. This includes all public two-year, four-year, and many independent colleges and universities. Transfer students may select other courses in these general education disciplines as electives. More information about the Illinois Articulation Initiative, including courses that are part of the IAI general education core is available at [itransfer.org](http://itransfer.org).

Students pursuing an associate degree in a career program (A.A.S.) or in General Studies (A.G.S.) may select their general education courses from the lists below, including those without IAI codes. These courses may also transfer as electives. Consult the Office of Advising, Transitions, and Student Success for more information.

Students may use two or more IAI general education courses with the same IAI code to fulfill general education requirements unless otherwise indicated in the Academic Catalog course descriptions.

Consult the Baccalaureate Transfer Programs and Career Programs sections of the Academic Catalog for specific requirements for associate degrees.

### Communications (Area A)

Course	Hours
<b>EGL 101</b> <b>Composition I (C1 900) (also available as AP Language and Composition)<sup>1</sup></b>	<b>3</b>
<b>EGL 102</b> <b>Composition II (C1 901R)<sup>1</sup></b>	<b>3</b>
<b>SPE 103</b> <b>Effective Speech (C2 900)</b>	<b>3</b>

<sup>1</sup> IAI requires a grade of C or better in EGL 101 Composition I and EGL 102 Composition II.

**Note:** Students pursuing an associate degree in a career program (A.A.S.), may take EGL 111 and/or EGL 212 to satisfy general education requirements. These courses may also transfer as electives.

### Mathematics (Area B)

Course	Hours
<b>MAT 125</b> <b>General Education Mathematics (M1 904)</b>	<b>4</b>
MAT 129 Foundations of Mathematics for Elementary Teachers II (M1 903)	3
<b>MAT 131</b> <b>Elementary Statistics (M1 902)</b>	<b>4</b>
MAT 143 Finite Mathematics (M1 906)	4
MAT 144 Discrete Mathematics (M1 905)	3
MAT 180 Calculus for Business and Social Science (M1 900-B)	4
<b>MAT 250</b> <b>Calculus I (M1 900-1)</b>	<b>5</b>
<b>MAT 251</b> <b>Calculus II (M1 900-2)</b>	<b>4</b>
<b>MAT 252</b> <b>Calculus III (M1 900-3)</b>	<b>4</b>

**Note:** Students pursuing an associate degree in a career program (A.A.S.) may take other MAT courses at 100 level or above to satisfy general education requirements. These courses may also transfer as electives. Consult Oakton career associate degree information or transfer institution for specific information to select mathematics courses.

### Science (Area C)

Associate degrees leading to transfer, must include one course in the life science category and one course in the physical science category. At least one of the two courses must be a laboratory course, indicated by an "L" suffix at the end of IAI code.

Course	Hours
<b>Life Science</b>	
BIO 101 Introduction to Life Science (L1 900L)	4
BIO 103 A Survey of Ecology (L1 905)	3
BIO 104 Human Genetics (L1 906)	3
BIO 105 Human Genetics (L1 906L)	4
<b>BIO 106</b> <b>Introduction to Environmental Science (L1 905L)<sup>1</sup></b>	<b>4</b>
BIO 109 Plants and Society (L1 901)	3
BIO 116 Microbe and Society (L1 903)	3
<b>BIO 121</b> <b>General College Biology I (L1 910L)</b>	<b>4</b>
<b>BIO 122</b> <b>General College Biology II (L1 910L)</b>	<b>4</b>
<b>Physical Science</b>	
ATR 115 Descriptive Astronomy (P1 906)	3
ATR 120 Practical Astronomy (P1 906L)	4
CHM 101 Introductory Chemistry (P1 902L)	4
CHM 105 Elements of Chemistry (P1 902L)	4
<b>CHM 121</b> <b>General College Chemistry I (P1 902L)</b>	<b>4</b>
EAS 100 Introduction to Earth Science (P1 905L)	4
<b>EAS 101</b> <b>Physical Geology (P1 907L)</b>	<b>4</b>
EAS 102 Historical Geology (P1 907L)	4
EAS 105 Introduction to Weather and Climate (P1 905)	3
EAS 110 Climate Change and Variability (P1 905)	3
EAS 121 Physical Geography (P1 909)	3
EAS 125 A Survey of Oceanography (P1 905)	3
EAS 205 Environmental Geology (P1 908)	3
<b>PHY 131</b> <b>College Physics I (P1 900L)</b>	<b>4</b>
PHY 221 General Physics I (P2 900L)	5

<sup>1</sup> Course also fulfills the Global Studies requirement.

**Note:** Students pursuing an associate degree in a career program (A.A.S.), may take other general education courses in Biology (BIO), Chemistry (CHM), Earth Science (EAS), Geographic Information Systems (GIS), and Physics (PHY). These courses may also transfer as electives.

### Social and Behavioral Sciences (Area D)

Associate degrees leading to transfer, must include courses in at least two different disciplines.

Course	Hours
<b>Anthropology</b>	
ANT 102 Introduction to Social and Cultural Anthropology (S1 901N) <sup>1</sup>	3
ANT 103 Introduction to Archaeology (S1 903)	3
ANT 104 Introduction to Physical Anthropology (S1 902)	3
<b>Economics</b>	
ECO 110 Elements of Economics (S3 900)	3
<b>ECO 201</b> <b>Principles of Macroeconomics (S3 901)</b>	<b>3</b>
<b>ECO 202</b> <b>Principles of Microeconomics (S3 902)</b>	<b>3</b>

# Concurrent Enrollment

## History

<b>HIS 111</b>	<b><i>United States History to 1877 (S2 900)</i></b>	<b>3</b>
<b>HIS 112</b>	<b><i>United States History from 1877 (S2 901)</i></b>	<b>3</b>
HIS 113	History of Native Americans (S2 923D) <sup>3</sup>	3
HIS 114	Introduction to African American History (S2 923D) <sup>2</sup>	3
<b>HIS 131</b>	<b><i>Western Civilization to 1650 (S2 902)</i></b>	<b>3</b>
<b>HIS 132</b>	<b><i>Western Civilization since 1650 (S2 903)</i></b>	<b>3</b>
HIS 139	History of the Non-Western World to 1900 (S2904N) <sup>1</sup>	3
HIS 140	History of Contemporary Non-Western Civilizations (S2 905N) <sup>1</sup>	3
HIS 203	History of South Asia I (S2 920N) <sup>1</sup>	3
HIS 204	History of South Asia II (S2 920N) <sup>1</sup>	3
HIS 208	History of Ancient Africa (S2 920N) <sup>1</sup>	3
HIS 211	History of Modern Africa (S2 920N) <sup>1</sup>	3
HIS 216	History of Modern China (S2 920N) <sup>1</sup>	3
HIS 225	History of the Islamic Middle East from the 7th Century to 1918 (S2 920N) <sup>1</sup>	3
HIS 226	History of the Islamic Middle East in Modern Times (S2 920N) <sup>1</sup>	3
HIS 233	History of Latin America to Independence (S2920N) <sup>1</sup>	3
HIS 234	History of Modern Latin America (S2 920N) <sup>1</sup>	3

## Geography

GEG 120	World Regional Geography (S4 900N) <sup>1</sup>	3
<b>GEG 122</b>	<b><i>Cultural Geography (S4 900N)<sup>1</sup></i></b>	<b>3</b>
GEG 130	Introduction to Economic Geography (S4 903N) <sup>1</sup>	3

## Political Science

<b>PSC 101</b>	<b><i>American Government (S5 900)</i></b>	<b>3</b>
PSC 103	Introduction to Political Science (S5 903)	3
<b>PSC 201</b>	<b><i>Comparative Government (S5 905)<sup>1</sup></i></b>	<b>3</b>
PSC 202	International Relations (S5 904) <sup>1</sup>	3

## Psychology

<b>PSY 101</b>	<b><i>Introduction to Psychology (S6 900)</i></b>	<b>3</b>
PSY 120	Human Development (S6 902)	3
PSY 122	Human Sexuality (S9 903) <sup>2</sup>	3
PSY 202	Social Psychology (S8 900) <sup>2</sup>	3
PSY 204	Adolescent Psychology (S6 904)	3
PSY 205	Adult Psychology (S6 905)	3
PSY 211	Child Psychology (S6 903)	3

## Sociology

SOC 101	Introduction to Sociology (S7 900) <sup>2</sup>	3
SOC 103	Social Problems (S7 901) <sup>2</sup>	3
SOC 104	Sociology of Marriage and Family (S7 902) <sup>2</sup>	3
SOC 230	Sociology of Sex and Gender (S7 904D) <sup>2</sup>	3
SOC 232	Sociology of Race and Ethnicity (S7 903D) <sup>2</sup>	3

## Social Science

SSC 101	The Individual in Modern Society (S9 900)	3
SSC 105	Introduction to Ethnic Studies (S7 903D) <sup>2</sup>	3
SSC 201	Introduction to Global Studies (S9 900) <sup>1</sup>	3
SSC 205	Latin American Civilization and Culture (S9 901)	3

**Note:** Students pursuing an associate degree in a career program (A.A.S.), may take other general education courses in Anthropology (ANT); Economics (ECO); Geography (GEG); History (HIS); Political Science (PSC); Psychology (PSY) (except PSY 230 and PSY 231); Social Science (SSC); Sociology (SOC). These courses may also transfer as electives.

## Humanities/Fine Arts (Area E)

Associate degrees leading to transfer, must include courses in at least two different disciplines.

Course	Hours
<b>Humanities</b>	
EGL 113	Introduction to Drama (H3 902)
EGL 115	Introduction to Fiction (H3 901)
EGL 117	Introduction to Poetry (H3 903)
<b>EGL 129</b>	<b><i>Introduction to Literature (H3 900)</i></b>
EGL 130	Introduction to Global Literature (H3 908N) <sup>1</sup>
EGL 131	Multicultural Literature in the U.S. (H3 910D) <sup>2</sup>
EGL 132	LGBTQ+ Literature (H3 911D) <sup>2</sup>
EGL 133	Women and Literature (H3 911D) <sup>2</sup>
EGL 134	Introduction to African-American Literature (H3910D) <sup>2</sup>
EGL 135	Introduction to Native American Literature (H3910D) <sup>3</sup>

EGL 137	Introduction to Asian American Literature (H3 910D)	2
EGL 141	Introduction to Children's Literature (H3 918)	3
EGL 221	American Literature I: Beginnings to 1865 (H3 914) <sup>2</sup>	3
EGL 222	American Literature II (from The Civil War to the Present) (H3 915) <sup>2</sup>	3
EGL 231	British Literature I (from Anglo-Saxons to 1800) (H3 912)	3
EGL 232	British Literature II (from 1800 to the Present) (H3913)	3
EGL 234	Introduction to Shakespeare (H3 905)	3
EGL 241	Masterpieces of Western Literature I (H3 906)	3
EGL 242	Masterpieces of Western Literature II (H3 907)	3
HUM 120	Western Culture and the Arts: Beginnings through the Middle Ages (HF 902)	3
HUM 121	Western Culture and the Arts: Renaissance through the 20th Century (HF 903)	3
HUM 122	Contemporary Culture and the Arts (HF 901)	3
HUM 124	African-American Culture and the Arts (HF 906D) <sup>2</sup>	3
HUM 127	Introduction to Philosophy (H4 900)	3
HUM 140	Introduction to Women's and Gender Studies (H9900) <sup>2</sup>	3
HUM 141	Introduction to LGBTQ Studies (H9 900) <sup>2</sup>	3
HUM 142	Women and Creativity (HF 907D) <sup>2</sup>	3
HUM 150	Environmental Humanities (HF 900)	3
HUM 210	World Mythologies (H9 901) <sup>1</sup>	3
HUM 220	Asian Humanities (HF 904N) <sup>1</sup>	3
PHL 105	Logic (H4 906)	3
PHL 106	Ethics (H4 904)	3
PHL 110	Introduction to the Study of Religion (H5 900) <sup>1</sup>	3
PHL 130	Religious Diversity in America (H5 905) <sup>2</sup>	3
PHL 204	Environmental Ethics (H4 904) <sup>1</sup>	3
PHL 205	World Religions (H5 904N) <sup>1</sup>	3
PHL 215	Asian Philosophy (H4 903N) <sup>1</sup>	3
PHL 230	Ancient and Medieval Philosophy (H4 901)	3
PHL 231	Modern and Contemporary Philosophy (H4 902)	3
PHL 240	Philosophy of Religion (H4 905)	3
PHL 245	Foundational Religious Texts (H5 901)	3

## Fine Arts

ART 110	History of Photography (F2 904)	3
<b>ART 111</b>	<b><i>Art History: Prehistoric to Renaissance (F2 901)</i></b>	<b>3</b>
<b>ART 112</b>	<b><i>Art History: Renaissance to Modern (F2 902)</i></b>	<b>3</b>
ART 113	Art History: Modern Art (Twentieth Century) (F2902)	3
ART 114	Art History: Art of the Non-Western World (F2903N) <sup>1</sup>	3
HUM 120	Western Culture and the Arts: Beginnings through the Middle Ages (HF 902)	3
HUM 121	Western Culture and the Arts: Renaissance through the 20th Century (HF 903)	3
HUM 122	Contemporary Culture and the Arts (HF 901)	3
HUM 123	Introduction to Art (F2 900)	3
HUM 124	African-American Culture and the Arts (HF 906D) <sup>2</sup>	3
HUM 125	Introduction to Music (F1 900)	3
HUM 131	Introduction to Theater (F1 907)	3
HUM 135	Introduction to U.S. Dance Practices (F1 911D) <sup>2</sup>	3
HUM 142	Women and Creativity (HF 907D) <sup>2</sup>	3
HUM 150	Environmental Humanities (HF 900)	3
HUM 160	Introduction to Film (F2 909)	3
HUM 161	Global Cinema (F2 909) <sup>1</sup>	3
HUM 165	Introduction to World Music (F1 903N) <sup>1</sup>	3
HUM 220	Asian Humanities (HF 904N) <sup>1</sup>	3
HUM 242	Women, Art and Culture (F2 907D) <sup>2</sup>	3
HUM 260	Perspectives on Film (F2 908)	3
MUS 145	Introduction to Music of the U.S.A. (F1 904)	3
MUS 236	Music Literature and History (F1 901)	3

**Note:** Students pursuing an associate degree in a career program (A.A.S.), may take other general education courses in Art (ART); English (EGL) literature courses; Modern Language; Humanities (HUM); Music (MUS); Philosophy (PHL); and Theater (THE). These courses may also transfer as electives.

<sup>1</sup> Course also fulfills the Global Studies requirement.

<sup>2</sup> Course also fulfills the U.S. Diversity requirement.

<sup>3</sup> Course also fulfills Global Studies and U.S. Diversity requirements.

## Global Studies<sup>1</sup> (Area F)

Oakton requires that all students earning an associate degree successfully complete a course that provides a distinct global context for examining debates surrounding the complex interrelationships among peoples, nations and the environment, and the phenomenon of globalization. **Courses that provide this context and fulfill this requirement are marked with the footnote reference "1" and listed below.** Some of these courses may also fulfill general education requirements for Humanities, Fine Arts, Science, Social Science, Behavioral Sciences, and U.S. Diversity.

Course	Hours
<b>Sciences</b>	
BIO 103 A Survey of Ecology (L1 905)	3
<b>BIO 106 Introduction to Environmental Science (L1 905L)</b>	<b>4</b>
BIO 109 Plants and Society (L1 901)	3
<b>Social and Behavioral Sciences</b>	
ANT 102 Introduction to Social and Cultural Anthropology (S1 901N)	3
GEG 120 World Regional Geography (S4 900N)	3
<b>GEG 122 Cultural Geography (S4 900N)</b>	<b>3</b>
GEG 130 Introduction to Economic Geography (S4 903N)	3
HIS 113 History of Native Americans (S2 923D) <sup>2</sup>	3
HIS 139 History of the Non-Western World to 1900 (S2904N)	3
HIS 140 History of Contemporary Non-Western Civilizations (S2 905N)	3
HIS 203 History of South Asia I (S2 920N)	3
HIS 204 History of South Asia II (S2 920N)	3
HIS 208 History of Ancient Africa (S2 920N)	3
HIS 211 History of Modern Africa (S2 920N)	3
HIS 216 History of Modern China (S2 920N)	3
HIS 225 History of the Islamic Middle East from the 7th Century to 1918 (S2 920N)	3
HIS 226 History of the Islamic Middle East in Modern Times (S2 920N)	3
HIS 233 History of Latin America to Independence (S2920N)	3
HIS 234 History of Modern Latin America (S2 920N)	3
<b>PSC 201 Comparative Government (S5 905)</b>	<b>3</b>
PSC 202 International Relations (S5 904)	3
SOC 103 Social Problems (S7 901) <sup>2</sup>	3
SSC 201 Introduction to Global Studies (S9 900)	3
SSC 205 Latin American Civilization and Culture (S9 901)	3
<b>Humanities/Fine Arts</b>	
ART 114 Art History: Art of the Non-Western World (F2903N)	3
EGL 130 Introduction to Global Literature (H3 908N)	3
EGL 135 Introduction to Native American Literature (H3910D) <sup>2</sup>	3
HUM 135 Introduction to U.S. Dance Practices (F1 911D)	3
HUM 161 Global Cinema (F2 909)	3
HUM 165 Introduction to World Music (F1 903N)	3
HUM 210 World Mythologies (H9 901)	3
HUM 220 Asian Humanities (HF 904N)	3
PHL 110 Introduction to the Study of Religion (H5 900)	3
PHL 204 Environmental Ethics (H4 904)	3
PHL 205 World Religions (H5 904N)	3
PHL 215 Asian Philosophy (H4 903N)	3
Modern Language Courses 202 or higher	

Students can also meet the Global Studies requirement through non-IAI courses listed below. These courses may also transfer as electives.

Course	Hours
EGL 229 [National/Regional] Literature	3
GBS 101 Introduction to Global Business <sup>3</sup>	3
HIS 228 History of the Holocaust	3
PSC 204 International Terrorism	3
PSC 250 International Security: War and Peace	3
SPE 115 Interpersonal Communication Across Cultures <sup>2</sup>	3
SSC 205 Latin American Civilization and Culture	3
SSC 206 Contemporary China and Japan	3

## U.S. Diversity Studies<sup>2</sup> (Area G)

The State of Illinois requires that all students earning an associate degree successfully complete a course that focuses on issues related to diversity in the U.S., including such topics as race, gender, ethnicity, sexual orientation, class, immigration, indigenous communities, religion, ability/disability, and multiculturalism. **Courses that provide this context and fulfill this requirement are marked with the footnote reference "2" and listed below.** Most of these courses may also fulfill general education requirements for Humanities, Fine Arts, Science, Social Science, and Behavioral Science.

Course	Hours
<b>Social and Behavioral Sciences</b>	
HIS 113 History of Native Americans (S2 923D) <sup>1</sup>	3
HIS 114 Introduction to African American History (S2 923D)	3
PSY 122 Human Sexuality (S9 903)	3
PSY 202 Social Psychology (S8 900)	3
SOC 101 Introduction to Sociology (S7 900)	3
SOC 103 Social Problems (S7 901) <sup>1</sup>	3
SOC 104 Sociology of Marriage and Family (S7 902)	3
SOC 230 Sociology of Sex and Gender (S7 904D)	3
SOC 232 Sociology of Race and Ethnicity (S7 903D)	3
SSC 105 Introduction to Ethnic Studies (S7 903D)	3
<b>Humanities</b>	
EGL 131 Multicultural Literature in the U.S. (H3 910D)	3
EGL 132 LGBTQ+ Literature (H3 911D)	3
EGL 133 Women and Literature (H3 911D)	3
EGL 134 Introduction to African-American Literature (H3901D)	3
EGL 135 Introduction to Native American Literature (H3910D) <sup>1</sup>	3
EGL 136 Introduction to U.S. Latino/a/x Literature (H3 911D) <sup>1</sup>	3
EGL 137 Introduction to Asian American Literature (H3 910D)	3
EGL 221 American Literature I: Beginnings to 1865 (H3 914)	3
EGL 222 American Literature II (from the Civil War to the Present) (H3 915)	3
HUM 124 African-American Culture and the Arts (HF 906D)	3
HUM 140 Introduction to Women's and Gender Studies (H9900)	3
HUM 141 Introduction to LGBTQ Studies (H9 900)	3
HUM 142 Women and Creativity (HF 907D)	3
HUM 242 Women, Art and Culture (F2 907D)	3
PHL 130 Religious Diversity in America (H5 905)	3

Students pursuing an associate degree in a career program (A.A.S.) can also meet the U.S. Diversity Studies requirement through non-IAI courses listed below. These courses may also transfer as electives.

Course	Hours
BIO 110 Sex, Gender and Health	3
EDN 180 Diversity in School and Society	3
HIS 235 Women in American History	3
MGT 232 Diversity, Equity and Inclusion in the Workplace	3
PSY 110 Multicultural Psychology	3
PSY 125 Understanding Diversity	3
SPE 115 Interpersonal Communication Across Cultures <sup>1</sup>	3
SPE 125 Basic Sign Language	3

**Note:** Oakton College also offers an Academic Concentration in Global Studies and a Global Studies Pre-major.

<sup>1</sup> Course also fulfills the Global Studies requirement.

<sup>2</sup> Course fulfills the U.S. Diversity requirement.

<sup>3</sup> This course will not count toward the minimum general education requirements for the A.A.S. degree.

# Advanced Placement (AP) Credit

AP courses are offered at your high school and are taught by high school faculty. The courses are developed by a national organization called the College Board, ensuring that they meet strict standards for college rigor. This means that you'll be taking a course at your high school that's more difficult than the average high school course. In most cases, you'll take an AP exam to show that you've mastered the material at the college level. Upon successful completion of the exam with a score of 3 or higher, you can apply AP credit toward your degree or certificate at Oakton or any other school to which you apply.

*Advanced Placement (AP) Equivalencies are identified in green italics throughout this publication.*

## Advanced Placement (AP) Equivalencies

Examination	Minimum Score for Awarding Credit	Semester Credit Hours	Oakton Course Equivalent
<b>AP Capstone</b>			
Research		3	Social Science Elective
Seminar		3	Social Science Elective
<b>Arts</b>			
Art History	3	6	ART 111, 112
Studio Art: 2D Design	3	3	ART 105
Studio Art: 3D Design	3	3	ART 107
Studio Art: Drawing	3	3	ART 131
Music Theory	3	6	MUS 121, 122
<b>English</b>			
English Language and Composition	3	3	EGL 101
English Literature and Composition	3	3	EGL 129
<b>History and Social Science</b>			
Government and Politics Comparative	3	3	PSC 201
European History	3	6	HIS 131, 132
Human Geography	3	3	GEG 122
Macroeconomics	3	3	ECO 201
Microeconomics	3	3	ECO 202
Psychology	3	3	PSY 101
U.S. Government and Politics	3	3	PSC 101
U.S. History	3	6	HIS 111, 112
World History	3	3	Social Science Elective
<b>Math and Computer Science</b>			
Calculus AB	3	5	MAT 250
Calculus BC	3	9	MAT 250, 251
Computer Science A	3	3	CSC 156
Computer Science Principles	3	3	CIS 101
Statistics	3	3	MAT 131
<b>Sciences</b>			
Biology	3	4	BIO 121
	4	4	BIO 121
	5	8	BIO 121, 122
Chemistry	3	4	CHM 121
	4-5	8	CHM 121, 122
Environmental Science	3	4	BIO 106
Physics C: Electricity and Magnetism	3	4	Science Elective
Physics C: Mechanics	3	4	Science Elective
Physics 1: Algebra-Based	3	4	Science Elective
Physics 2: Algebra-Based	3	8	PHY 131, 132 ( <i>Must get 3 or higher on both Physics 1 and 2</i> )
<b>World Languages and Culture</b>			
Chinese Language and Culture	3	8	CHI 101, 102
French Language and Culture	3	8	FRE 101, 102
German Language and Culture	3	8	GER 101, 102
Italian Language and Culture	3	8	ITL 101, 102
Japanese Language and Culture	3	8	JPN 101, 102
Latin	3	8	Language Elective
Spanish Language and Culture	3	8	SPN 101, 102
Spanish Literature and Culture	3	3	SPN 210

## Early College Degree and Certificate Pathways

Browse Oakton's Early College degree and certificate pathways in the pages that follow. You'll see how your Early College credit gives you a head start.

Make sure to check with your high school counselor or identified dual credit liaison to see if your high school offers the course. If not, you may be able to take a similar course through concurrent enrollment.

*AP courses are in green italics. Courses that are offered by Oakton as dual credit are indicated in bold green.*

### Accounting Associate A.A.S.

#### 62 Semester Credit Hours

This is a comprehensive program that encompasses financial accounting, accounting technology, managerial accounting, taxation, and business ethics. Additionally, students will complete 18 credit hours of general education courses. Graduates will be eligible for a variety of accounting jobs, including staff accounting, accounts payable, general ledger, payroll, or income tax preparation.

**Note:** Refer to page 9 for guidelines on IAI General Education course selection.

#### FIRST YEAR

Fall Semester	Hours
<b>ACC 153</b> Principles of Financial Accounting	4
<b>EGL 101</b> Composition I <i>(also available as AP Language and Composition)</i>	3
BUS 101 Introduction to Business	3
Select one from the following:	4
MAT 111 Business and Consumer Mathematics	
<b>MAT 140</b> College Algebra	
MAT 143 Finite Mathematics	
MAT 180 Calculus for Business and Social Science	

**Hours** **14**

#### Spring Semester

ACC 154 Principles of Managerial Accounting	4
ACC 170 Payroll Tax Accounting	1
ACC 180 Accounting with Microsoft Excel	3
ACC 188 Cloud Accounting <sup>2</sup>	2
Select one from the following:	3
<b>EGL 102</b> Composition II	
EGL 111 Introduction to Business and Technical Writing	
EGL 212 Technical Writing Applications	
<b>SPE 103</b> Effective Speech	

**Hours** **13**

#### Summer Semester

ACC 183 Quickbooks Online Certified User Preparation	2
<b>ECO 201</b> Principles of Macroeconomics	3

**Hours** **6**

#### SECOND YEAR

##### Fall Semester

ACC 241 Intermediate Accounting I	4
ACC 244 Income Tax Accounting	3
ACC 255 Careers in Accounting	2
<b>ECO 202</b> Principles of Microeconomics <i>(or other Social and Behavioral Sciences course)</i>	3

**Note:** You may select a course that also satisfies Global Studies<sup>1</sup> and/or U.S. Diversity Studies<sup>2</sup> requirements

Choose one Humanities/Fine Arts course 3

**Note:** You may select a course that also satisfies Global Studies<sup>1</sup> and/or U.S. Diversity Studies<sup>2</sup> requirements

**Hours** **15**

##### Spring Semester

#### ACC Elective:

BUS 221 Business Law I	3
MGT 118 Effective Management Communications	3

BUS 107 Business Ethics	3
or MGT 118 or Effective Management Communications	

Choose one Humanities/Fine Arts course 3

**Note:** You may select a course that also satisfies Global Studies<sup>1</sup> and/or U.S. Diversity Studies<sup>2</sup> requirement

**Hours** **15**

**Total Hours** **63**

### Associate of Arts (A.A.) Business/Accounting Pre-major

Oakton offers an associate in arts (A.A.) degree for students intending to transfer into baccalaureate programs at a four-year college or university to pursue a Bachelors in business or accounting.

**See business and accounting transfer agreements with DePaul University, Roosevelt University and Southern Illinois University-Carbondale at oakton.edu.**

#### FIRST YEAR

Fall Semester	Hours
<b>ACC 153</b> Principles of Financial Accounting <sup>4</sup>	4
<b>EGL 101</b> Composition I <sup>2</sup> <i>(also available as AP Language and Composition)</i>	3
BUS 101 Introduction to Business <sup>3</sup>	3
<b>CIS 101</b> Introduction to Computer Information Systems <sup>3</sup>	3
Select one of the following: <sup>1</sup>	4
<b>MAT 140</b> College Algebra	
MAT 143 Finite Mathematics	
MAT 180 Calculus for Business and Social Science	

**Hours** **17**

#### Spring Semester

ACC 154 Principles of Managerial Accounting <sup>4</sup>	4
<b>EGL 102</b> Composition II <sup>3</sup>	3
Select one of the following: <sup>1</sup>	4
MAT 143 Finite Mathematics	
MAT 180 Calculus for Business and Social Science	
MAT 190 Business Statistics	

Select one science course without lab:<sup>3</sup> 3

One science course must be from the Life Sciences (LS) and one science course must be from the Physical Sciences (PS)

BIO 104 Human Genetics (LS)	
BIO 109 Plants and Society (LS)	
EAS 105 Introduction to Weather and Climate (PS)	
EAS 121 Physical Geography (PS)	
EAS 205 Environmental Geology (PS)	

Select one of the following:<sup>3</sup> 3

EGL 130 Introduction to Global Literature <sup>2</sup>	
EGL 131 Multicultural Literature in the U.S. <sup>3</sup>	
HUM 161 Global Cinema <sup>2</sup>	
HUM 210 World Mythologies <sup>2</sup>	
or other Humanities or Fine Arts course that also satisfies Global Studies <sup>2</sup> or U.S. Diversity Studies <sup>3</sup> requirements	

**Hours** **17**

*continued*

# Degree and Certificate Pathways

## SECOND YEAR

### Fall Semester

<b>SPE 103</b>	<b>Effective Speech<sup>3</sup></b>	<b>3</b>
BUS 221	Business Law I <sup>3</sup>	3
<b>ECO 201</b>	<b>Principles of Macroeconomics<sup>3</sup></b>	<b>3</b>
Select one of the following: <sup>3</sup>		3
EGL 130	Introduction to Global Literature <sup>2</sup>	
EGL 131	Multicultural Literature in the U.S. <sup>3</sup>	
HUM 161	Global Cinema <sup>2</sup>	
HUM 210	World Mythologies <sup>2</sup>	
or other Humanities of Fine Arts course that also satisfies Global Studies <sup>2</sup> or U.S. Diversity Studies <sup>3</sup> requirements		
Select one of the following: <sup>3</sup>		3
HIS 140	History of Contemporary Non-Western Civilizations <sup>2</sup>	
SOC 101	Introduction to Sociology <sup>3</sup>	
SSC 201	Introduction to Global Studies <sup>2</sup>	
or other Social and Behavioral Sciences course from a different discipline other than Economics		

**Hours** **15**

### Spring Semester

<b>ECO 202</b>	<b>Principles of Microeconomics<sup>3</sup></b>	<b>3</b>
Select one of the following: <sup>3</sup>		3
ART 114	Art History: Art of the Non-Western World <sup>2</sup>	
HUM 150	Environmental Humanities	
HUM 161	Global Cinema <sup>2</sup>	
Select one Science course with lab: <sup>4</sup>		4
One science course must be from the Life Sciences (LS) and one science course must be from the Physical Sciences (PS)		
BIO 101	Introduction to Life Science (LS)	
BIO 105	Human Genetics (LS)	
<b>BIO 106</b>	<b>Introduction to Environmental Science (LS)<sup>2</sup></b>	
CHM 101	Introductory Chemistry (PS)	
EAS 100	Introduction to Earth Science (PS)	
<b>EAS 101</b>	<b>Physical Geology (PS)</b>	
Select one of the following: <sup>3</sup>		3
GBS 101	Introduction to Global Business	
MGT 232	Diversity, Equity and Inclusion in the Workplace <sup>3</sup>	
SOC 103	Social Problems <sup>4</sup>	

**Hours** **13**

**Total Hours** **62**

<sup>1</sup> Students should check with their transfer institution to determine mathematics requirements.

<sup>2</sup> Course fulfills the Global Studies requirement. At least one Global Studies course is required for degree completion.

<sup>3</sup> Course fulfills the U.S. Diversity Studies requirement. At least one U.S. Diversity Studies course is required for degree completion.

<sup>4</sup> Course fulfills both the Global Studies and U.S. Diversity Studies requirements.

## Accounting Associate Certificate

### 41 Semester Credit Hours

The following pathway is recommended for students pursuing the Accounting Associate Certificate.

### FIRST YEAR

<b>Fall Semester</b>		<b>Hours</b>
<b>ACC 153</b>	<b>Principles of Financial Accounting</b>	<b>4</b>
BUS 101	Introduction to Business	3
BUS 221	Business Law I	3
MGT 118	Effective Management Communications	3
<b>Hours</b>		<b>13</b>

### Spring Semester

ACC 180	Accounting with Microsoft Excel	3
ACC 183	Quickbooks Online Certified User Preparation	2
ACC 188	Cloud Accounting	2
ACC 244	Income Tax Accounting	3

**Hours** **11**

### Summer Semester

ACC 170	Payroll Tax Accounting	1
BUS 107	Business Ethics	3
or MGT 276	or Corporate Social Responsibility and Decision Making	

**Hours** **4**

## SECOND YEAR

### Fall Semester

ACC 154	Principles of Managerial Accounting	4
ACC 241	Intermediate Accounting I	4
ACC 255	Careers in Accounting	2
ACC Elective		3

**Hours** **13**

**Total Hours** **41**

## Automotive Technology A.A.S.

### 66 Semester Credit Hours

The Automotive Technology program offers an Associate in Applied Science Degree (A.A.S.), as well as the Automotive Technology and Automotive Technology Powertrain certificates. The curriculum is accredited by the Automotive Service Excellence Education Foundation (ASEEF). This program is for students already working in the field or looking to get into the highly skilled automotive trade.

See automotive transfer agreement with Southern Illinois University-Carbondale at [oakton.edu/admissions/transfer-services](http://oakton.edu/admissions/transfer-services).

**Note:** Refer to page 9 for guidelines on IAI General Education course selection.

### FIRST YEAR

<b>Fall Semester</b>		<b>Hours</b>
<b>ATA 102</b>	<b>Introduction to Automotive Technology</b>	<b>4</b>
ATA 111	Automotive Electrical Systems I	4
<b>EGL 101</b>	<b>Composition I (also available as AP Language and Composition)</b>	<b>3</b>

Select one from the following:

MAT 114	Applied Mathematics I	4
<b>MAT 125</b>	<b>General Education Mathematics</b>	
<b>MAT 131</b>	<b>Elementary Statistics</b>	

**Hours** **15**

### Spring Semester

ATA 110	Engine Performance and Fuel Systems	4
ATA 113	Brake Systems	4
PHY 101	Applied Physics	4
Select one from the following:		3
SOC 101	Introduction to Sociology <sup>1</sup>	
SOC 103	Social Problems <sup>2</sup>	

**Hours** **15**

**Total Hours** **41**

**Hours** **15**

### Summer Semester

ATA 207	Automotive Heating and Air Conditioning	4
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**Hours** **4**

## SECOND YEAR

### Fall Semester

ATA 204	Basic Automotive Engines	4
ATA 206	Clutches, Transmissions, and Differentials	4
ATA 208	Automatic Transmissions	4

Select one Humanities/Fine Arts course that also satisfies Global Studies requirements 3

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**Hours** **15**

### Spring Semester

ATA 114	Steering, Balancing, and Alignment	4
ATA 205	Advanced Automotive Engines	4
<b>SPE 103</b>	<b>Effective Speech</b>	<b>3</b>
ATA 210	Advanced Engine Performance Analysis	4

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15

### Summer Semester

ATA 211	Automotive Electrical Systems II	4
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**Hours** **4**

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**Total Hours** **68**

<sup>1</sup> Course fulfills the U.S. Diversity Studies Requirement. At least one U.S. Diversity Studies course is required for degree completion.

<sup>2</sup> Course fulfills both, the Global Studies and U.S. Diversity Studies requirements.

## Automotive Electrical Systems Certificate

**12 Semester Credit Hours; Curriculum: 0029**

This certificate exposes students to the principles and theory of automotive electrical systems and provides opportunities for students to demonstrate the detailed operation and services of batteries, starters, and alternators. Emphasis is placed on Ohm's Law, diagnosis/repair of electrical systems and different types of communication networks. This certificate is for students seeking entry-level careers in automotive technology or for individuals seeking to learn additional automotive systems to advance their skills and career. This certificate can be completed in one semester.

Courses for a Certificate	Hours
<b>ATA 102</b> <b>Introduction to Automotive Technology</b>	<b>4</b>
ATA 111    Automotive Electrical Systems I	4
ATA 211    Automotive Electrical Systems II	4
<b>Total Hours</b>	<b>12</b>

## Automotive Engines Certificate

**12 Semester Credit Hours; Curriculum: 0020**

This certificate exposes students to the principles and theory of automotive engines and provide opportunities for students to demonstrate the detailed operation and servicing of engine components. Emphasis is placed on measurement of engine components, disassembly and assembly of the cylinder head and the engine block. This certificate is for students seeking entry-level careers in automotive technology or for individuals seeking to learn additional automotive systems to advance their skills and career. This certificate can be completed in one semester.

Courses for a Certificate	Hours
<b>ATA 102</b> <b>Introduction to Automotive Technology</b>	<b>4</b>
ATA 204    Basic Automotive Engines	4
ATA 205    Advanced Automotive Engines	4
<b>Total Hours</b>	<b>12</b>

## Automotive Engine Performance and Emissions Certificate

**16 Semester Credit Hours; Curriculum: 0022**

This certificate exposes students to the principles and theory of automotive ignition and fuel systems and provides opportunities for students to demonstrate the detailed operation and services of ignition and fuel delivery components. Emphasis is placed on diagnosis, analysis, repair, and test procedures. Examine faults of onboard computers and OBDII Emissions with the aid of advanced scan tools. This certificate is for students seeking entry-level careers in automotive technology or for individuals seeking to learn additional automotive systems to advance their skills and career. This certificate can be completed in one semester.

Courses for a Certificate	Hours
<b>ATA 102</b> <b>Introduction to Automotive Technology</b>	<b>4</b>
ATA 110    Engine Performance and Fuel Systems	4
ATA 111    Automotive Electrical Systems I	4
ATA 210    Advanced Engine Performance Analysis	4
<b>Total Hours</b>	<b>16</b>

## Automotive Heating and Air Conditioning Certificate

**12 Semester Credit Hours; Curriculum: 0009**

This certificate exposes students to principles and theory of the heating air conditioning system and provides opportunities for students to demonstrate the detailed operation of such systems. Emphasis is placed on diagnosis, servicing, and replacement of refrigeration and components of both systems. This certificate is for students seeking entry-level careers in automotive technology or for individuals seeking to learn additional automotive systems to advance their skills and career. This certificate can be completed in one semester.

Courses for a Certificate	Hours
<b>ATA 102</b> <b>Introduction to Automotive Technology</b>	<b>4</b>
ATA 111    Automotive Electrical Systems I	4
ATA 207    Automotive Heating and Air Conditioning	4
<b>Total Hours</b>	<b>12</b>

## Automotive Transmission and Powertrain Certificate

**12 Semester Credit Hours; Curriculum: 0011**

This certificate exposes students to the operational principles and theory of automatic and manual transmissions and provides opportunities for students to demonstrate the detailed operation and services of hydraulics and internal components. Emphasis is placed on repair and troubleshooting of internal power flow, torque converter, clutch assembly, drive axle, and front/rear wheel drive transmissions. This certificate is for students seeking entry-level careers in automotive technology or for individuals seeking to learn additional automotive systems to advance their skills and career. This certificate can be completed in one semester.

Courses for a Certificate	Hours
<b>ATA 102</b> <b>Introduction to Automotive Technology</b>	<b>4</b>
ATA 206    Clutches, Transmissions, and Differentials	4
ATA 208    Automatic Transmissions	4
<b>Total Hours</b>	<b>12</b>

# Degree and Certificate Pathways

## Automotive Under Car Certificate

**16 Semester Credit Hours; Curriculum: 0012**

This certificate exposes students to the principles and theory of automotive under car systems and provides opportunities for students to demonstrate the detailed operation and services of brakes, steering, and suspension. Emphasis is placed on tire construction, diagnosing tire wear, mounting, balancing, repair of tire, and use of (TPMS) Tire Pressure Monitor Systems. This certificate is for students seeking entry-level careers in automotive technology or for individuals seeking to learn additional automotive systems to advance their skills and career. This certificate can be completed in one semester.

Courses for a Certificate		Hours
<b>ATA 102</b>	<b>Introduction to Automotive Technology</b>	<b>4</b>
ATA 111	Automotive Electrical Systems I	4
ATA 113	Brake Systems	4
ATA 114	Steering, Balancing, and Alignment	4
<b>Total Hours</b>		<b>16</b>

## Computers and Information Systems A.A.S.

**62 Semester Credit Hours**

This degree prepares the student to support a computer system at an entry-level in the areas of software, hardware, programming, and networks in a business environment or to be a liaison between the IT department and other departments in the organization.

**Note:** Refer to page 9 for guidelines on IAI General Education course selection.

### FIRST YEAR

Semester One	Hours
<b>EGL 101</b>	<b>Composition I (also available as AP Language and Composition)</b>
MAT 111	Business and Consumer Mathematics
<b>CIS 101</b>	<b>Introduction to Computer Information Systems</b>
<b>CNS 105</b>	<b>Networking Essentials</b>
CAB 140	Database Application Using Access

**Hours** 16

### Semester Two

CIS 103	Computer Software and Concepts	4
MAT 114	Applied Mathematics I	
<b>or MAT 140</b>	<b>or College Algebra</b>	<b>4</b>

Select one from the following: 3

<b>EGL 102</b>	<b>Composition II</b>
EGL 111	Introduction to Business and Technical Writing (recommended)
EGL 211	Writing Digital Content
EGL 212	Technical Writing Applications (recommended)
<b>SPE 103</b>	<b>Effective Speech (recommended)</b>

Select one from the following: 3-4

CIS 131	Web Page Development	
ART 259	Introduction to Web Design	

Select one from the following: 3-4

CSC 155	C++ Computer Science I	
<b>CSC 156</b>	<b>Java Computer Science I</b>	
CSC 157	Python Computer Science I	
CIS 180	Introduction to Visual Basic .NET Programming	

**Hours** 17-19

### SECOND YEAR

#### Semester One

BUS 101	Introduction to Business	3
CAB 135	Electronic Spreadsheets Using Excel	2
CIS 201	Information Systems for Business	3
CIS 205	Documentation and Technical Writing	3
CIS 116	Introduction to the MS-Windows Operating System	
<b>or CIS 118</b>	<b>or Linux Operating System</b>	<b>2</b>

<sup>1</sup> Course fulfills the U.S. Diversity Requirement. At least one U.S. Diversity course is required for degree completion.

<sup>2</sup> Course fulfills both the Global Studies and U.S. Diversity Requirement.

<sup>3</sup> Course fulfills the Global Studies Requirement. At least one Global Studies course is required for degree completion.

Select one from the following: 3

SOC 101	Introduction to Sociology <sup>1</sup>	
SOC 103	Social Problems <sup>2</sup>	
SOC 104	Sociology of Marriage and Family <sup>1</sup>	
SOC 230	Sociology of Sex and Gender <sup>1</sup>	
SOC 232	Sociology of Race and Ethnicity <sup>1</sup>	
SSC 105	Introduction to Ethnic Studies <sup>1</sup>	

**Hours** 16

### Semester Two

CAB 150	Visio Fundamentals	2
CIS 203	Managing Information Systems	3
CIS 208	Visual Basic for Applications	4
ELT 130	Microcomputer Hardware Systems	3

Select one from the following: 3

ART 114	Art History: Art of the Non-Western World <sup>3</sup>	
EGL 130	Introduction to Global Literature <sup>3</sup>	
HUM 161	Global Cinema <sup>3</sup>	
HUM 165	Introduction to World Music <sup>3</sup>	
HUM 210	World Mythologies <sup>3</sup>	
HUM 220	Asian Humanities <sup>3</sup>	
PHL 205	World Religions <sup>3</sup>	
PHL 215	Asian Philosophy	

**Hours** 15

**Total Hours** 64-66

## Computer Programmer A.A.S.

**63 Semester Credit Hours**

This degree prepares the student to become proficient in writing business-oriented computer programs and to develop communication skills critical in the workplace.

**Note:** Refer to page 9 for guidelines on IAI General Education course selection.

### FIRST YEAR

#### Semester One

<b>EGL 101</b>	<b>Composition I (also available as AP Language and Composition)</b>	<b>3</b>
MAT 111	Business and Consumer Mathematics	4
<b>CIS 101</b>	<b>Introduction to Computer Information Systems</b>	<b>3</b>
<b>CNS 105</b>	<b>Networking Essentials</b>	<b>3</b>
CAB 140	Database Application Using Access	3

**Hours** 16

#### Semester Two

CIS 131	Web Page Development	4
CIS 143	Introduction to SQL	3
MAT 114	Applied Mathematics I	
<b>or MAT 140</b>	<b>or College Algebra</b>	<b>4</b>

Select one from the following: 3

<b>EGL 102</b>	<b>Composition II</b>
EGL 111	Introduction to Business and Technical Writing (recommended)
EGL 211	Writing Digital Content
EGL 212	Technical Writing Applications (recommended)
<b>SPE 103</b>	<b>Effective Speech (recommended)</b>

Select one from the following: 3

CSC 155	C++ Computer Science I	
<b>CSC 156</b>	<b>Java Computer Science I</b>	
CSC 157	Python Computer Science I	

**Hours** 17

### SECOND YEAR

#### Semester One

CIS 201	Information Systems for Business	3
Select one from the following: 3		
SOC 101	Introduction to Sociology <sup>1</sup>	
SOC 103	Social Problems <sup>2</sup>	
SOC 104	Sociology of Marriage and Family <sup>1</sup>	
SOC 230	Sociology of Sex and Gender <sup>1</sup>	
SOC 232	Sociology of Race and Ethnicity <sup>1</sup>	
SSC 105	Introduction to Ethnic Studies <sup>1</sup>	



# Degree and Certificate Pathways

Select courses from one of the following tracks:

**General Programmer Track (10-12 credit hours)**

Select one from the following:

- CIS 180 Introduction to Visual Basic .NET Programming (to be followed by CIS 210 in next semester)
- CIS 208 Visual Basic for Applications (to be followed by CIS 209 in next semester)
- CIS 211 Java Programming (to be followed by CIS 222 in next semester)

Select two courses from the following:

- CIS 208 Visual Basic for Applications
- CIS 209 Database Programming for PCs
- CIS 210 Visual Basic .NET Programming for Files and Databases
- CIS 211 Java Programming
- CIS 213 Advanced Topics in Visual Basic .NET Programming
- CIS 222 Java Programming Using Files and Databases
- CIS 227 C# Programming
- CIS 231 Advanced Java Programming
- CSC 240 C++ Data Structures
- CSC 241 Java Data Structures
- CSC 242 Python Data Structures
- CSC 255 Objects and Algorithms

or other course approved by the program coordinator

**Mobil Programmer Track (11-12 credit hours)**

- CIS 257 Apps Programming for Apple Mobile Devices
- or CIS 258 Apps Programming for Android Mobile Devices

Select one from the following:

- CIS 180 Introduction to Visual Basic .NET Programming
- CIS 211 Java Programming
- CIS 227 C# Programming

or other course approved by the program coordinator

Select one from the following:

- CIS 208 Visual Basic for Applications
- CIS 209 Database Programming for PCs
- CIS 210 Visual Basic .NET Programming for Files and Databases
- CIS 211 Java Programming
- CIS 213 Advanced Topics in Visual Basic .NET Programming
- CIS 222 Java Programming Using Files and Databases
- CIS 227 C# Programming
- CIS 231 Advanced Java Programming
- CSC 240 C++ Data Structures
- CSC 241 Java Data Structures
- CSC 242 Python Data Structures
- CSC 255 Objects and Algorithms

or other course approved by the program coordinator

**Web Developer Track (12 credit hours)**

- CIS 171 Advanced Web Page Development
- CIS 188 Active Server Pages
- CIS 248 Web Database Management

**Hours** **16-18**

**Semester Two**

- CIS 204 Introduction to System Analysis and Design 3
- CIS 241 Database Management 3

Select one from the following: 3

- CIS 203 Managing Information Systems
- CIS 205 Documentation and Technical Writing
- CIS 251 Computer Information Systems Internship

Select one from the following: 3

- ART 114 Art History: Art of the Non-Western World<sup>3</sup>
- EGL 130 Introduction to Global Literature<sup>3</sup>
- HUM 161 Global Cinema<sup>3</sup>
- HUM 165 Introduction to World Music<sup>3</sup>
- HUM 210 World Mythologies<sup>3</sup>
- HUM 220 Asian Humanities<sup>3</sup>
- PHL 205 World Religions<sup>3</sup>
- PHL 215 Asian Philosophy<sup>3</sup>

Select one course from one of the following tracks: 3-4

**General Programmer Track (4 credit hours)**

10-12

Select one from the following:

- CIS 210 Visual Basic .NET Programming for Files and Databases (if CIS 180 was taken in previous semester)
- CIS 209 Database Programming for PCs (if CIS 208 was taken in previous semester)
- CIS 222 Java Programming Using Files and Databases (if CIS 211 was taken in previous semester)

**Mobile Programmer Track (4 credit hours)**

- CIS 267 Advanced Apps Programming Using Apple Mobile Devices
- or CIS 268 Advanced Apps Programming for Android Mobile Devices

**Web Developer Track (3-4 credit hours)**

Select one from the following:

- CIS 214 Web Site Maintenance and Management
- CIS 232 Web Scripting

or other course approved by the program coordinator

<b>Hours</b>	<b>15-16</b>
<b>Total Hours</b>	<b>64-67</b>

<sup>1</sup> Course fulfills the U.S. Diversity Requirement. At least one U.S. Diversity course is required for degree completion.

<sup>2</sup> Course fulfills both the Global Studies and U.S. Diversity Requirement.

<sup>3</sup> Course fulfills the Global Studies Requirement. At least one Global Studies course is required for degree completion.

## Management of Information Systems (MIS) Certificate

The following pathway is recommended for students pursuing the Management of Information Systems (MIS) Certificate. This certificate prepares students to use computer technology for solving real-world business issues in information systems such as billing, payroll, financial transaction, scheduling, and customer service.

**FIRST YEAR**

<b>Semester One</b>	<b>Hours</b>
CIS 201 Information Systems for Business	3
CIS 204 Introduction to System Analysis and Design	3
CIS 236 Project Management	3
CIS 205 Documentation and Technical Writing	3
or MGT 118 or Effective Management Communications	3
<b>Any CNS course (example: CNS 105)</b>	<b>3</b>

**Hours** **15**

**Semester Two**

CIS 203 Managing Information Systems	3
CIS 241 Database Management	3

Select two courses from one of the following tracks: 6-8

**Database Applications Track (6-7 credit hours)**

- CIS 143 Introduction to SQL
- CIS 145 Database Fundamentals I
- CIS 245 Database Fundamentals II
- CIS 209 Database Programming for PCs

**Programming Applications Track (8 credit hours)**

- CIS 180 Introduction to Visual Basic .NET Programming
- Any 200-level Programming Language course:
- CIS 209 Database Programming for PCs (recommended)
  - CIS 210 Visual Basic .NET Programming for Files and Databases (recommended)

**Web Applications Track (7-8 credit hours)**

- CIS 171 Advanced Web Page Development
- CIS 214 Web Site Maintenance and Management
- CIS 248 Web Database Management

or other CIS course (contact an academic advisor for a list of acceptable courses)

<b>Hours</b>	<b>12-14</b>
<b>Total Hours</b>	<b>27-29</b>

# Degree and Certificate Pathways

## Computers Programmer Certificate

The following pathway is recommended for students pursuing the Computers Programming Certificate.

### FIRST YEAR

Semester One		Hours
<b><i>CIS 101</i></b>	<b><i>Introduction to Computer Information Systems</i></b>	<b>3</b>
CIS 131	Web Page Development	4
<b>CNS 105</b>	<b>Networking Essentials</b>	<b>3</b>
CAB 140	Database Application Using Access	3
Select one course from the following:		<b>3</b>
CSC 155	C++ Computer Science I	
<b>CSC 156</b>	<b>Java Computer Science I</b>	
CSC 157	Python Computer Science I	

**Hours** **16**

### Semester Two

CIS 201	Information Systems for Business	3
CIS 204	Introduction to System Analysis and Design	3
Select one from the following:		3
CIS 143	Introduction to SQL	
CIS 203	Managing Information Systems	
CIS 205	Documentation and Technical Writing	
CIS 241	Database Management	
CIS 251	Computer Information Systems Internship	

Select one course from one of the following tracks: **4**

### General Programmer Track (4 credit hours)

Select one from the following:	
CIS 180	Introduction to Visual Basic .NET Programming (to be followed by CIS 210 in next semester)
CIS 208	Visual Basic for Applications (to be followed by CIS 209 in next semester)
CIS 211	Java Programming (to be followed by CIS 222 in next semester)

### Mobile Programmer Track (4 credit hours)

CIS 257	Apps Programming for Apple Mobile Devices
or CIS 258	or Apps Programming for Android Mobile Devices

### Web Developer Track (4 credit hours)

CIS 171	Advanced Web Page Development
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**Hours** **13**

### SECOND YEAR

#### Semester One

Select courses from one of the following tracks: **10-12**

### General Programmer Track (10-12 credit hours)

Select one from the following:	
CIS 210	Visual Basic .NET Programming for Files and Databases (if CIS 180 was taken in previous semester)
CIS 209	Database Programming for PCs (if CIS 208 was taken in previous semester)
CIS 222	Java Programming Using Files and Databases (if CIS 211 was taken in previous semester)

Select two courses from the following:

CIS 208	Visual Basic for Applications
CIS 209	Database Programming for PCs
CIS 210	Visual Basic .NET Programming for Files and Databases
CIS 211	Java Programming
CIS 213	Advanced Topics in Visual Basic .NET Programming
CIS 222	Java Programming Using Files and Databases
CIS 227	C# Programming
CIS 231	Advanced Java Programming
CSC 240	C++ Data Structures
CSC 241	Java Data Structures
CSC 242	Python Data Structures
CSC 255	Objects and Algorithms

or other course approved by the program coordinator

### Mobile Programmer Track (11-12 credit hours)

CIS 267	Advanced Apps Programming Using Apple Mobile Devices
or CIS 268	or Advanced Apps Programming for Android Mobile Devices

Select one from the following:

CIS 180	Introduction to Visual Basic .NET Programming
CIS 211	Java Programming
CIS 227	C# Programming

or other course approved by the program coordinator

Select one from the following:

CIS 208	Visual Basic for Applications
CIS 209	Database Programming for PCs
CIS 210	Visual Basic .NET Programming for Files and Databases
CIS 211	Java Programming
CIS 213	Advanced Topics in Visual Basic .NET Programming
CIS 222	Java Programming Using Files and Databases
CIS 227	C# Programming
CIS 231	Advanced Java Programming
CSC 240	C++ Data Structures
CSC 241	Java Data Structures
CSC 255	Objects and Algorithms

or other course approved by the program coordinator

### Web Developer Track (12 credit hours)

CIS 188	Active Server Pages
CIS 248	Web Database Management

Select one from the following:

CIS 214	Web Site Maintenance and Management
CIS 232	Web Scripting

or other course approved by the program coordinator

**Hours** **10-12**

**Total Hours** **39-41**

## Internet and Computer Core (IC3) Certificate

This certificate is designed to develop an individual's basic computer skills and Internet knowledge to promote success in using a computer in day to-day living (school, work, personal). Students will understand the basic concepts and terminology related to computer technology. This certificate can be completed in one semester.

Courses for a Certificate	Hours	
CIS 103	Computer Software and Concepts	4
CIS 111	Fundamentals of the Internet	2
CIS 116	Introduction to the MS-Windows Operating System	2
<b>CNS 105</b>	<b>Networking Essentials</b>	<b>3</b>
ELT 130	Microcomputer Hardware Systems	3
<b>Total Hours</b>	<b>14</b>	

## PC Support Specialist Certificate

The following pathway is recommended for students pursuing the PC Support Specialist Certificate. This certificate prepares the student to provide entry-level support of a computer system software and hardware in a business environment or to be a liaison between the IT department and other departments in the organization.

### FIRST YEAR

#### Semester One

<b><i>CIS 101</i></b>	<b><i>Introduction to Computer Information Systems</i></b>	<b>3</b>
CAB 135	Electronic Spreadsheets Using Excel	2
CAB 140	Database Application Using Access	3
BUS 101	Introduction to Business	3

**Hours** **11**

# Degree and Certificate Pathways

## Semester Two

CIS 103 Computer Software and Concepts	4
CIS 201 Information Systems for Business	3
ELT 130 Microcomputer Hardware Systems	3
Select one from the following:	2
CAB 125 Word Processing Using Word	
CAB 130 Presentation Software Using PowerPoint	
CAB 235 Advanced Spreadsheets Using Excel	
or other CAB, CIS or CNS course (except CAB 110)	

**Hours** **12**

## SECOND YEAR

### Semester One

CIS 116 Introduction to the MS-Windows Operating System	
or CIS 118 or Linux Operating System	2
or other CAB, CIS or CNS course (except CAB 110)	
CIS 203 Managing Information Systems	3
CIS 205 Documentation and Technical Writing	3

Select one from the following: **3**

CAB 104 Skill Building and Formatting	
CAB 184 Communication Strategies	

**CNS 105 Networking Essentials**

**Hours** **11**

**Total Hours** **34**

## Computer Networking and Systems A.A.S.

### 60 Semester Credit Hours

The Computer Networking and Systems associate degree program is designed to provide students with the knowledge and skills necessary to obtain a position in Networking.

**Note:** Refer to page 9 for guidelines on IAI General Education course selection.

### General Education Requirements: Hours

Area A — Communications	
<b>EGL 101 Composition I (also available as AP Language and Composition)</b>	<b>3</b>
Select one from the following:	<b>3</b>
<b>EGL 102 Composition II</b>	
EGL 111 Introduction to Business and Technical Writing	
EGL 212 Technical Writing Applications	
<b>SPE 103 Effective Speech</b>	
Area B — Mathematics	3-4
Select course from Area B (Mathematics)	
MAT 114 Applied Mathematics I (or higher)	
Area C — Science	3
Select one course from a science discipline	
PHY 101 Applied Physics (recommended)	
Area D — Social and Behavioral Sciences	3
One course from a social or behavioral science discipline	
Area E — Humanities/Fine Arts	3
One course from a humanities or fine arts discipline	
Area F — Global Studies <sup>1</sup>	0-3
One course that satisfies Global Studies requirement	
GBS 101 Introduction to Global Business (recommended)	
Area G — U.S. Diversity Studies <sup>2</sup>	0-3
One course that satisfies U.S. Diversity Studies requirement	
<b>Total Hours</b>	<b>18</b>

<sup>1</sup> Students may take a Global Studies course that satisfies both Area F and another Area requirement.

<sup>2</sup> Students may take a U.S. Diversity course that satisfies both Area G and another Area requirement.

### Major Requirements

<b>CIS 101</b>	<b>Introduction to Computer Information Systems</b>	<b>3</b>
<b>CNS 105</b>	<b>Networking Essentials</b>	<b>3</b>
CNS 110	Windows Client Desktop <sup>1</sup>	3
CNS 150	Windows Client Desktop <sup>2</sup>	3
<b>CNS 170</b>	<b>Principles of Information Security</b>	<b>3</b>
or CNS 176	or Network Security	
CNS 172	Network Defense and Countermeasures	3
CNS 174	Introduction to Computer Forensics	3
Select at least twelve credit hours from the following:		12
Nine credit hours from any CNS courses not taken previously		
CIS 118 Linux Operating System (or higher)		
or any CSC or ELT courses		

### Cisco Track

CNS 141	Cisco Introduction to Networks	3
CNS 142	Cisco Switching, Routing, and Wireless Essentials	3
CNS 143	Cisco Enterprise Networking, Security, and Automation	3

**Total Hours** **9**

### Microsoft Track

CNS 111	Windows Server <sup>1</sup>	3
CNS 114	Windows Server <sup>2</sup>	3
CNS 116	Windows Server <sup>3</sup>	3

**Total Hours** **9**

## Network Security Administrator Certificate

Courses for a Certificate	Hours	
<b>CNS 105</b>	<b>Networking Essentials</b>	<b>3</b>
CNS 121	IT Certification Preparation	1
CSC 157	Python Computer Science I	3
CNS 172	Network Defense and Countermeasures	3
CNS 173	Cybersecurity Operations Analysis	3
CNS 174	Introduction to Computer Forensics	3
CNS 176	Network Security	3
CNS 178	Ethical Hacking	3
CNS/CIS 228	Linux Administration	3
<b>Total Hours</b>	<b>25</b>	

## Windows Server Administration Certificate

Courses for a Certificate	Hours	
<b>CNS 105</b>	<b>Networking Essentials</b>	<b>3</b>
CNS 111	Windows Server <sup>1</sup>	3
CNS 114	Windows Server <sup>2</sup>	3
CNS 116	Windows Server <sup>3</sup>	3
CNS 121	IT Certification Preparation	1
CNS 214	Securing Enterprise Server	3
<b>Total Hours</b>	<b>16</b>	

## Windows Support Technician Certificate

Courses for a Certificate	Hours	
<b>CIS 101</b>	<b>Introduction to Computer Information Systems</b>	<b>3</b>
or CIS 103	or Computer Software and Concepts	
<b>CNS 105</b>	<b>Networking Essentials</b>	<b>3</b>
CNS 110	Windows Client Desktop <sup>1</sup>	3
CNS 121	IT Certification Preparation	1
CNS 150	Windows Client Desktop <sup>2</sup>	3
<b>CNS 170</b>	<b>Principles of Information Security</b>	<b>3</b>
or CNS 176	or Network Security	
<b>Total Hours</b>	<b>16</b>	

# Degree and Certificate Pathways

## Network Security Administration A.A.S.

### 60 Semester Credit Hours

The Network Security Administration degree program provides a foundation in network security and provides students with the knowledge and skills necessary to obtain positions as cybersecurity analysts and technical security support personnel.

**Note:** Refer to page 9 for guidelines on IAI General Education course selection.

General Education Requirements:	Hours
Area A – Communications	
<b>EGL 101 Composition I (also available as AP Language and Composition)</b>	<b>3</b>
Select one from the following:	<b>3</b>
<b>EGL 102 Composition II</b>	
EGL 111 Introduction to Business and Technical Writing (recommended)	
EGL 212 Technical Writing Applications	
<b>SPE 103 Effective Speech (recommended)</b>	
Area B – Mathematics	3
One course from Area B	
MAT 114 Applied Mathematics I (or higher)	
Area C – Science	3
One course from a science discipline	
PHY 101 Applied Physics (recommended)	
Area D – Social and Behavioral Sciences	3
One course from a social or behavioral science discipline	
Area E – Humanities/Fine Arts	3
One course from a humanities or fine arts discipline	
Area F – Global Studies <sup>1</sup>	0-3
One course that satisfies Global Studies requirement	
GBS 101 Introduction to Global Business (recommended)	
Area G – U.S. Diversity Studies <sup>2</sup>	0-3
One course that satisfies U.S. Diversity Studies requirement	
<b>Total Hours</b>	<b>18</b>

<sup>1</sup> Students may take a Global Studies course that satisfies both Area F and another Area requirement.

<sup>2</sup> Students may take a U.S. Diversity course that satisfies both Area G and another Area requirement.

### Major Requirements

<b>CIS 101</b> <b>Introduction to Computer Information Systems</b>	<b>3</b>
or CIS 103 Computer Software and Concepts	
CIS/CNS 228    Linux Administration	3
<b>CNS 105</b> <b>Networking Essentials</b>	<b>3</b>
CNS 110        Windows Client Desktop 1	3
CNS 170        Principles of Information Security	3
CNS 172        Network Defense and Countermeasures	3
CNS 173        Cybersecurity Operations Analysis	3
CNS 174        Introduction to Computer Forensics	3
CNS 176        Network Security	3
CNS 178        Ethical Hacking	3
Any other CNS course not taken previously:	3
CSC 157        Python Computer Science I	3
ELT 130        Microcomputer Hardware Systems	3
Select one of the following electives:	3
CIS 118 or higher or any CSC or any ELT course not taken previously	
<b>Total Hours</b>	<b>42</b>

## Early Childhood Education

The Early Childhood Education program is designed to educate professionals in a range of diverse positions to serve infants, toddlers, preschoolers and school-age children in group situations, as well as to serve their families. Students are trained in college affiliated, nationally accredited early childhood education centers which serve as field sites.

**As of 2022, the A.A.S. in Early Childhood Education transfers to all Illinois universities with bachelor's programs in Early Childhood Education. See early childhood education transfer agreement with DePaul University and National Louis University at [oakton.edu/admissions/transfer-services](http://oakton.edu/admissions/transfer-services).**

To earn an Associate in Applied Science degree or one of several certificates, ECE students must achieve a minimum grade of C in all Early Childhood Education courses and successfully complete field experiences before being accepted in practicum, earning a certificate, or being granted the A.A.S. degree.

The National Association for the Education of Young Children and Oakton's ECE program encourage persons entering the field to have a minimum of an ECE certificate or an A.A.S. degree.

The Illinois Department of Children and Family Services requires child care workers to have a minimum of six credit hours in early childhood education, and two years of college credit to be licensed to teach young children in group situations. Students seeking to meet only these minimum DCFS requirements should take the following ECE core courses:

Core Courses	Hours
<b>ECE 102</b> <b>Child Growth and Development</b>	<b>3</b>
One course from the following:	3
ECE 104      Introduction to Early Childhood Education	
ECE 107      Observation and Assessment of the Young Child	
ECE 108      Nutrition, Health and Safety for the Young Child	
ECE 270      Child, Family, and Community Relations	

## Early Childhood Education A.A.S.

### 60 Semester Credit Hours

The following pathway is recommended for students pursuing an Associate in Applied Science degree in Early Childhood Education.

**Note:** Refer to page 9 for guidelines on IAI General Education course selection.

### FIRST YEAR

Semester One	Hours
<b>ECE 102</b> <b>Child Growth and Development</b>	<b>3</b>
ECE 104      Introduction to Early Childhood Education	3
ECE 108      Nutrition, Health and Safety for the Young Child	3
<b>EGL 101</b> <b>Composition I (also available as AP Language and Composition)</b>	<b>3</b>
<b>MAT 125</b> <b>General Education Mathematics</b>	
<b>or MAT 131</b> <b>or Elementary Statistics</b>	<b>4</b>
<b>Hours</b>	<b>16</b>

Semester Two	Hours
ECE 107      Observation and Assessment of the Young Child	3
ECE 180      The Exceptional Child	3
ECE 270      Child, Family, and Community Relations	3
ECE 255      Curriculum Design for Early Childhood Programs	3
<b>EGL 102</b> <b>Composition II</b>	<b>3</b>
<b>or SPE 103</b> <b>or Effective Speech</b>	
<b>Hours</b>	<b>15</b>

### SECOND YEAR

Semester One	Hours
ECE 226      Language Arts and Social Studies for the Young Child	3
ECE 228      Language Development of Children	3
SOC 101      Introduction to Sociology <sup>1</sup>	3
Select one Humanities/Fine Arts course	3
Select one from the following:	3
<b>PSY 101 Introduction to Psychology</b> or one Global Studies course <sup>2</sup>	
<b>Hours</b>	<b>15</b>

# Degree and Certificate Pathways

## Semester Two

	Hours
ECE 227 Math and Science for the Young Child	3
ECE 257 Early Childhood Education Practicum	5
Select elective courses from the following disciplines:	7
ECE (Early Childhood Education)	
EDN (Education)	
PSY (Psychology)	
Modern Language Course (202 <sup>2</sup> or higher) <sup>3</sup>	
<b>Hours</b>	<b>15</b>
<b>Total Hours</b>	<b>61</b>

<sup>1</sup> Course fulfills the U.S. Diversity Requirement. At least one U.S. Diversity course is required for degree completion.

<sup>2</sup> Course fulfills the Global Studies Requirement. At least one Global Studies course is required for degree completion.

<sup>3</sup> Transfer institutions may have a language requirement. Any Modern Language Intermediate II course can meet the Humanities and Global Studies requirements.

## Basic Early Childhood Education Certificate

The following pathway is recommended for students pursuing the Basic Early Childhood Education Certificate.

### FIRST YEAR

Fall Semester	Hours
<b>ECE 102 Child Growth and Development</b>	<b>3</b>
ECE 104 Introduction to Early Childhood Education	3
ECE 108 Nutrition, Health and Safety for the Young Child	3
<b>Hours</b>	<b>9</b>
Spring Semester	Hours
ECE 107 Observation and Assessment of the Young Child	3
ECE 180 The Exceptional Child	3
ECE 270 Child, Family, and Community Relations	3
<b>Hours</b>	<b>9</b>
<b>Total Hours</b>	<b>18</b>

## Advanced Early Childhood Education Certificate

The following pathway is recommended for students pursuing the Advanced Early Childhood Education Certificate.

### FIRST YEAR

Fall Semester	Hours
<b>ECE 102 Child Growth and Development</b>	<b>3</b>
ECE 104 Introduction to Early Childhood Education	3
ECE 108 Nutrition, Health and Safety for the Young Child	3
<b>EGL 101 Composition I (also available as AP Language and Composition)</b>	<b>3</b>
<b>MAT 125 General Education Mathematics</b> <b>or MAT 131 or Elementary Statistics</b>	<b>4</b>
<b>Hours</b>	<b>16</b>
Spring Semester	Hours
ECE 107 Observation and Assessment of the Young Child	3
ECE 180 The Exceptional Child	3
ECE 270 Child, Family, and Community Relations	3
ECE 255 Curriculum Design for Early Childhood Programs	3
SOC 101 Introduction to Sociology	3
<b>Hours</b>	<b>15</b>
<b>Total Hours</b>	<b>31</b>

## Basic Infant Toddler Certificate

The following pathway is recommended for students pursuing the Basic Infant Toddler Certificate.

### FIRST YEAR

Fall Semester	Hours
<b>ECE 102 Child Growth and Development</b>	<b>3</b>
ECE 104 Introduction to Early Childhood Education	3
ECE 108 Nutrition, Health and Safety for the Young Child	3
<b>Hours</b>	<b>9</b>
Spring Semester	Hours
ECE 107 Observation and Assessment of the Young Child	3
ECE 180 The Exceptional Child	3
ECE 270 Child, Family, and Community Relations	3
ECE 215 Infant Toddler Techniques	3
<b>Hours</b>	<b>12</b>
<b>Total Hours</b>	<b>21</b>

## Advanced Infant Toddler Certificate

The following pathway is recommended for students pursuing the Advanced Infant Toddler Certificate.

### FIRST YEAR

Fall Semester	Hours
<b>ECE 102 Child Growth and Development</b>	<b>3</b>
ECE 104 Introduction to Early Childhood Education	3
ECE 215 Infant Toddler Techniques	3
<b>EGL 101 Composition I (also available as AP Language and Composition)</b>	<b>3</b>
<b>MAT 125 General Education Mathematics</b> <b>or MAT 131 or Elementary Statistics</b>	<b>4</b>
<b>Hours</b>	<b>16</b>
Spring Semester	Hours
ECE 107 Observation and Assessment of the Young Child	3
ECE 216 Infant-Toddler Programming	3
ECE 270 Child, Family, and Community Relations	3
ECE 255 Curriculum Design for Early Childhood Programs	3
SOC 101 Introduction to Sociology	3
<b>Hours</b>	<b>15</b>
Summer Semester	Hours
ECE 108 Nutrition, Health and Safety for the Young Child	3
ECE 180 The Exceptional Child	3
<b>Hours</b>	<b>6</b>
<b>Total Hours</b>	<b>37</b>

## Basic Family Child Care Provider Certificate

The following pathway is recommended for students pursuing the Basic Family Child Care Provider Certificate.

### FIRST YEAR

Fall Semester	Hours
<b>ECE 102 Child Growth and Development</b>	<b>3</b>
ECE 104 Introduction to Early Childhood Education	3
ECE 108 Nutrition, Health and Safety for the Young Child	3
ECE 165 Family Child Care Provider I	3
<b>Hours</b>	<b>12</b>
Spring Semester	Hours
ECE 107 Observation and Assessment of the Young Child	3
ECE 180 The Exceptional Child	3
ECE 270 Child, Family, and Community Relations	3
<b>Hours</b>	<b>9</b>
<b>Total Hours</b>	<b>21</b>

# Degree and Certificate Pathways

## Advanced Family Child Care Provider Certificate

The following pathway is recommended for students pursuing the Advanced Family Child Care Provider Certificate.

### FIRST YEAR

#### Fall Semester

<b>ECE 102</b>	<b>Child Growth and Development</b>	<b>3</b>
ECE 104	Introduction to Early Childhood Education	3
ECE 165	Family Child Care Provider I	3
<b>EGL 101</b>	<b>Composition I (also available as AP Language and Composition)</b>	<b>3</b>
<b>MAT 125 or MAT 131</b>	<b>General Education Mathematics or Elementary Statistics</b>	<b>4</b>

**Hours** **16**

#### Spring Semester

ECE 107	Observation and Assessment of the Young Child	3
ECE 166	Family Child Care Provider II	3
ECE 255	Curriculum Design for Early Childhood Programs	3
ECE 270	Child, Family, and Community Relations	3
SOC 101	Introduction to Sociology	3

**Hours** **15**

#### Summer Semester

ECE 108	Nutrition, Health and Safety for the Young Child	3
ECE 180	The Exceptional Child	3

**Hours** **6**

**Total Hours** **37**

## Early Childhood Education Administration Certificate

The following pathway is recommended for students pursuing the Early Childhood Education Administration Certificate

### FIRST YEAR

Fall Semester	Hours	
<b>ECE 102</b>	<b>Child Growth and Development</b>	<b>3</b>
ECE 107	Observation and Assessment of the Young Child	3
ECE 108	Nutrition, Health and Safety for the Young Child	3
ECE 270	Child, Family, and Community Relations	3
ECE 273	Introduction to Early Childhood Administration	3

**Hours** **15**

#### Spring Semester

ECE 180	The Exceptional Child	3
ECE 255	Curriculum Design for Early Childhood Programs	3
ECE 282	Marketing and Public Relations for the Early Childhood Program Director	2
ECE 283	Staff Management and Human Relations in Early Childhood Programs	1
ECE 284	Leadership and Advocacy for the Early Childhood Program Director	1
ECE 285	Communications for the Early Childhood Program Director	1
ECE 274	Early Childhood Director Practicum	3

**Hours** **14**

#### Summer Semester

ECE 280	Legal Aspects of Early Childhood Administration	1
ECE 281	Fiscal Management in Early Childhood Administration	2

**Hours** **3**

**Total Hours** **32**

## Electronics and Computer Technology A.A.S.

### 60 Semester Credit Hours

This program provides knowledge of emerging technologies and hands-on skills to analyze, configure, design, test and trouble-shoot analog and digital circuits, install and service electronic equipment and systems, and install, operate and service modern electronic and data communication systems. Curriculum includes an introduction to AC/DC circuits and Ohm's law, digital and semiconductor devices and circuits, microprocessors, CAD, wireless applications, home automation technologies, and fast track A+ certification. Students can receive an A.A.S. degree or can focus on technical courses in the following certificate programs: electronics technology; electronics computer technician; A+ computer diagnostic specialist; and home/office technology integrator.

**Note:** Refer to page 9 for guidelines on IAI General Education course selection.

### FIRST YEAR

Semester One	Hours	
ELT 101	Introduction to Electronics	5
ELT 130	Microcomputer Hardware Systems	3
<b>CNS 105</b>	<b>Networking Essentials</b>	<b>3</b>
MAT 114	Applied Mathematics I	4

**Hours** **15**

#### Semester Two

<b>EGL 101</b>	<b>Composition I (also available as AP Language and Composition)</b>	<b>3</b>
ELT 106	Semiconductor Theory	3
ELT 110	Electronic Drafting Using CAD	4
ELT 140	Computer Peripherals	3
MAT 116	Applied Mathematics II	3

**Hours** **16**

### SECOND YEAR

#### Semester One

<b>ELT 221</b>	<b>Digital Circuit Fundamentals</b>	<b>3</b>
ELT 223	Integrated Circuits	3
PHY 101	Applied Physics	4

Select one from the following: **3**

<b>EGL 102</b>	<b>Composition II</b>
EGL 111	Introduction to Business and Technical Writing
EGL 212	Technical Writing Applications
<b>SPE 103</b>	<b>Effective Speech</b>

Select one from the following: **3**

HUM 165	Introduction to World Music <sup>1</sup>
HUM 210	World Mythologies <sup>1</sup>
PHL 205	World Religions <sup>1</sup>

**Hours** **16**

#### Semester Two

ELT 225	Digital Integrated Circuits	3
ELT 231	Fundamentals of Microprocessors	3
MFG 240	Programmable Logic Controllers (PLC)	4

Select one from the following: **3**

SOC 101	Introduction to Sociology <sup>2</sup>
SOC 103	Social Problems <sup>3</sup>
SSC 105	Introduction to Ethnic Studies <sup>2</sup>

Select one from the following: **2-3**

ELT 150	A+ Certification Preparation
ELT 154	Fundamentals of Solar Energy Systems

**Hours** **15-16**

**Total Hours** **62-63**

<sup>1</sup> Course fulfills the Global Studies Requirement. At least one Global Studies course is required for degree completion.

<sup>2</sup> Course fulfills the U.S. Diversity Requirement. At least one Global Studies course is required for degree completion.

<sup>3</sup> Course fulfills both, the Global Studies and U.S. Diversity Requirements.

## Electronics Technology Certificate

The following pathway is recommended for students pursuing the Electronics Technology Certificate.

### FIRST YEAR

Semester One		Hours
ELT 101	Introduction to Electronics	5
ELT 130	Microcomputer Hardware Systems	3
<b>CNS 105</b>	<b>Networking Essentials</b>	<b>3</b>
MAT 114	Applied Mathematics I	4

**Hours** **15**

### Semester Two

ELT 106	Semiconductor Theory	3
ELT 110	Electronic Drafting Using CAD	4
PHY 101	Applied Physics	4
MAT 116	Applied Mathematics II	3-4
<b>or MAT 140</b>	<b>or College Algebra</b>	

**Hours** **14-15**

### SECOND YEAR

#### Semester One

<b>ELT 221</b>	<b>Digital Circuit Fundamentals</b>	<b>3</b>
ELT 231	Fundamentals of Microprocessors	3
MFG 240	Programmable Logic Controllers (PLC)	4
ELT 225	Digital Integrated Circuits	
<b>or ELT 224</b>	<b>or Industrial Circuit Applications</b>	3

**Hours** **13**

**Total Hours** **42-43**

## Electronics Computer Technician Certificate

The following pathway is recommended for students pursuing the Electronics Computer Technician Certificate.

### FIRST YEAR

Semester One		Hours
ELT 101	Introduction to Electronics	5
ELT 130	Microcomputer Hardware Systems	3
ELT 140	Computer Peripherals	3
MAT 114	Applied Mathematics I	4

**Hours** **15**

### Semester Two

ELT 106	Semiconductor Theory	3
ELT 110	Electronic Drafting Using CAD	4
CIS 103	Computer Software and Concepts	4
<b>CNS 105</b>	<b>Networking Essentials</b>	<b>3</b>

**Hours** **14**

### SECOND YEAR

#### Semester One

<b>ELT 221</b>	<b>Digital Circuit Fundamentals</b>	<b>3</b>
ELT 231	Fundamentals of Microprocessors	3
ELT 150	A+ Certification Preparation	
<b>or ELT 154</b>	<b>or Fundamentals of Solar Energy Systems</b>	2-3

**Hours** **8-9**

**Total Hours** **37-38**

## Graphic Design A.A.S.

### 63 Semester Credit Hours

The goal of the Associate in Applied Science degree in Graphic Design is to provide students with skills in a variety of animated graphic design areas, and for students to build a portfolio of work for admission to either a baccalaureate-granting institution or art school, to acquire skills for employment, and to earn a certificate in Animation and Multimedia, Game Development, Web Graphic Page Design, or Photography.

Experience and training is presented in areas including, but not limited to, website creation, studio photographer, video broadcast and sound production, World Wide Web, CD and game production, photojournalism and portraiture, 3D cutscene artist, project manager.

**Note:** Refer to page 9 for guidelines on IAI General Education course selection.

### FIRST YEAR

#### Semester One

Semester One		Hours
<b>EGL 101</b>	<b>Composition I (also available as AP Language and Composition)</b>	<b>3</b>
<b>ART 131</b>	<b>Drawing I</b>	<b>3</b>
ART 250	Introduction to Computer Art	3
<b>ART 105</b>	<b>Fundamentals of Two-Dimensional Art I</b>	<b>3</b>
<b>or GRD 101</b>	<b>or Introduction to Visual Communication</b>	<b>3</b>
<b>ART 115</b>	<b>Beginning Photography</b>	<b>3</b>
<b>or ART 117</b>	<b>or Digital Photography</b>	

**Hours** **15**

#### Semester Two

ART 216	Introduction to Digital Imaging	3
ART 224	Introduction to Graphic Design	3
ART 268	Digital 2D Animation and Multimedia	3

Select one from the following: **3**

EGL 111	Introduction to Business and Technical Writing	
EGL 212	Technical Writing Applications	
<b>SPE 103</b>	<b>Effective Speech</b>	<b>4</b>

**MAT 125** **General Education Mathematics** **4**  
(or other Mathematics or Science course)

**Hours** **16**

### SECOND YEAR

#### Semester One

ART 225	Graphic Design Layout and Typography	3
ART 259	Introduction to Web Design	3
ART 260	Introduction to 3D Animation and Multimedia	3

Select one course from one of the Media Tracks listed on the degree requirements page **3-4**

Select one from the following: **3**

ANT 102	Introduction to Social and Cultural Anthropology <sup>1</sup>	
SOC 103	Social Problems <sup>2</sup>	
SOC 232	Sociology of Race and Ethnicity <sup>3</sup>	
SSC 105	Introduction to Ethnic Studies <sup>3</sup>	
SSC 201	Introduction to Global Studies <sup>1</sup>	
or other Social and Behavioral Sciences course		

Select one from the following: **3**

ART 114	Art History: Art of the Non-Western World <sup>1</sup>	
ART 125	History of Graphic Design	
HUM 122	Contemporary Culture and the Arts	
HUM 127	Introduction to Philosophy	
HUM 161	Global Cinema <sup>1</sup>	
HUM 162	Film and Literature	
HUM 210	World Mythologies <sup>1</sup>	
or other Humanities/Fine Arts course		

**Hours** **18-19**

*continued*

# Degree and Certificate Pathways

## Semester Two

ART 267	Web Design Layout and Typography	3
ART 272	Portfolio Development	3
GRD 251	Graphic Design Practicum	3

Select one course from one of the Media Tracks listed on the degree requirements page (see Overview tab) 3-4

Select one from the following: 3

HUM 124	African-American Culture and the Arts <sup>3</sup>
HUM 140	Introduction to Women's and Gender Studies <sup>3</sup>
HUM 141	Introduction to LGBTQ Studies <sup>3</sup>
HUM 142	Women and Creativity <sup>3</sup>
HUM 242	Women, Art and Culture <sup>3</sup>
SOC 230	Sociology of Sex and Gender <sup>3</sup>
or other U.S. Diversity Studies course	

**Hours** 15-16

**Total Hours** 64-66

<sup>1</sup> Course fulfills the Global Studies Requirement. At least one Global Studies course is required for degree completion.

<sup>2</sup> Course fulfills both, the Global Studies and U.S. Diversity Requirements.

<sup>3</sup> Course fulfills the U.S. Diversity Requirement. At least one Global Studies course is required for degree completion.

## Photography Certificate

The following pathway is recommended for students pursuing the Photography Certificate.

### FIRST YEAR

Semester One	Hours
<b>ART 105</b> <i>Fundamentals of Two-Dimensional Art I</i> or GRD 101 <i>or Introduction to Visual Communication</i>	<b>3</b>
<b>ART 115</b> <i>Beginning Photography</i>	<b>3</b>
ART 117 Digital Photography	3
ART 216 Introduction to Digital Imaging	3
ART 250 Introduction to Computer Art	3

**Hours** 15

### Semester Two

ART 215 Color Photography	3
ART 219 Photographic Lighting	3
ART 227 Medium Format Photography	3
ART 278 The Digital Darkroom	3
GRD 254 Photography Practicum	3

Select one from the following: 3

<b>ART 107</b> <i>Fundamentals of Three-Dimensional Art I</i>
ART 110 History of Photography
ART 116 Alternative Photographic Processes
ART 217 Advanced Digital Imaging
ART 218 Advanced Black and White Photography
ART 220 Advanced Digital Photography
ART 222 View Camera
ART 223 Landscape Photography Field Study
ART 227 Medium Format Photography
ART 230 Architectural Photography
ART 237 Documentary Photography
ART 257 Advanced Masking and Compositing

**Hours** 18

**Total Hours** 33

## Health Information Technology A.A.S.

Associate in Applied Science in Health Information Technology prepares graduates for positions in health information management, clinical data specialist, medical coding, record processing, quality improvement, utilization management and reimbursement in the prospective payment system.

This program combines academic and technical studies as well as a professional practice experience in medical facilities and related settings.

Graduates of the Associate Degree program qualify to take the national certification examination, the RHIT (Registered Health Information Technician), given by the American Health Information Management Association (AHIMA). The Health Information Technology program is accredited by the Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM), in cooperation with AHIMA's Council on Accreditation.

See **HIT transfer agreement with National Louis University at**

[oakton.edu/admissions/transfer-services/transfer-guides/national-louis](http://oakton.edu/admissions/transfer-services/transfer-guides/national-louis)

**Note:** Refer to page 9 for guidelines on IAI General Education course selection.

### FIRST YEAR

Semester One (Fall)	Hours
BIO 114 Basic Human Anatomy and Physiology	3
<b>EGL 101</b> <i>Composition I (also available as AP Language and Composition)</i>	<b>3</b>
HIT 104 Medical Terminology	3
HIT 105 Pharmacology for Health Record Documentation	1
Select one Social and Behavioral Sciences course <sup>1</sup>	3

**Hours** 13

### Semester Two (Spring)

HIT 121 Fundamentals of Health Information Management	3
HIT 124 Fundamentals of Medical Science	3
<b>MAT 131</b> <i>Elementary Statistics</i>	<b>4</b>
Select one of the following:	3
EGL 102 Composition II	
EGL 111 Introduction to Business and Technical Writing	
EGL 212 Technical Writing Applications	
SPE 103 Effective Speech	
Select one Humanities/Fine Arts course <sup>1</sup>	3

**Hours** 16

### Semester Three (Summer)

HIT 170 CPT Coding	2
Select one of the following:	2-3
CAB 130 Presentation Software Using PowerPoint	
CAB 135 Electronic Spreadsheets Using Excel	
CAB 140 Database Application Using Access	
PHL 180 Medical Ethics	

**Hours** 4-5

### SECOND YEAR

#### Semester One (Fall)

HIT 108 International Classification of Disease (ICD)	3
HIT 120 Evaluation and Management Coding in CPT	1
HIT 131 Healthcare Statistics and Registries	2
HIT 194 Electronic Health Record and Applications	3
HIT 260 Principles of Healthcare Reimbursement	3
HIT 115 Insurance Procedures for the Medical Office: Medicare	1
or HIT 116 Insurance Procedures for the Medical Office: Non-Medicare	

**Hours** 13

#### Semester Two (Spring)

HIT 221 Quality Improvement and Assessment in Healthcare	3
HIT 222 Healthcare Management and Law for Health Information Management	3
HIT 223 Advanced Coding for Health Information Management	3
HIT 251 Health Information Technology Practicum	3
Select one elective to complete 61 credit hours required for a degree	3

**Hours** 15

**Total Hours** 61-62



## Medical Coding and Billing Certificate

The following pathway is recommended for students pursuing the Medical Coding and Billing Certificate. This curriculum prepares students for billing positions in physician offices and billing offices. Students take courses in computing, insurance procedures, CPT, ICD-10-CM coding, and medical terminology. Students must receive a minimum grade of C in all courses.

### FIRST YEAR

Spring Semester		Hours
<b>HIT 104</b>	<b>Medical Terminology</b>	<b>3</b>
HIT 105	Pharmacology for Health Record Documentation	1
HIT 111	ICD-10-CM Coding for the Physician Office	2
HIT 112	Anatomy and Physiology for ICD-10-CM Coding	3

**Hours** 9

### Summer Semester

HIT 170	CPT Coding	2
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**Hours** 2

### SECOND YEAR

#### Fall Semester

HIT 115	Insurance Procedures for the Medical Office: Medicare	1
HIT 116	Insurance Procedures for the Medical Office: Non-Medicare	1
HIT 120	Evaluation and Management Coding in CPT	1
HIT 125	Medical Billing Practices	2

**Hours** 5

**Total Hours** 16

## Basic Nurse Assistant Training Certificate

The Basic Nurse Assistant Training (BNAT) curriculum offers a basic study of principles and procedures used by the nurse assistant in long term care, home health settings and hospitals, and focuses on basic human needs and care of the elderly. Integration of skills and concepts is acquired through hands-on clinical experience at local health care facilities. This course is approved by the Illinois Department of Public Health (IDPH).

Upon completion, students may apply to take the Illinois Nurse Assistant/Home Health Aide Competency Exam. Those students who complete BNAT, and pass the Competency Exam and a criminal background check will be entered as Certified Nursing Assistants on the Health Care Worker Registry. For students interested in continuing their nursing studies at the college, CNA Certification is a prerequisite. This certificate can be completed in one semester.

Courses for a Certificate		Hours
<b>BNA 100</b>	<b>Basic Nurse Assistant Training</b>	<b>7</b>
<b>BNA 105</b>	<b>Basic Nurse Assistant Job Training</b>	<b>1</b>
<b>Total Hours</b>		<b>8</b>

<sup>1</sup> When selecting Social and Behavioral Sciences and Humanities/Fine Arts courses, please select at least one course that also satisfies the Global Studies requirement and one course that also satisfies the U.S. Diversity Studies requirement.

## Medical Assistant Certificate

The Medical Assistant Certificate prepares students for careers in a medical office or ambulatory care setting. The medical assistant performs a variety of administrative and clinical skills to assist physicians or other health professionals. Students will learn tasks in accordance with the standards and guidelines recommended by the Medical Assistant Education Review Board.

Upon successful completion of the program, the graduate is eligible to take a national certification exam.

### FIRST YEAR

Semester One		Hours
MAP 120	Basic Healthcare Skills for the Medical Assistant	2
MAP 180	Healthcare Office Procedures for the Medical Assistant	3

**HIT 104** **Medical Terminology** 3

MLT 105	Introduction to Health Care Issues	1
MLT 107	Phlebotomy	4

**Hours** 13

### Semester Two

MAP 185	Medical Billing and Coding for the Medical Assistant	3
MAP 230	Clinical Skills for the Medical Assistant	6
HIT 105	Pharmacology for Health Record Documentation	1
MLT 204	Phlebotomy Practicum	2

**Hours** 12

### Semester Three

MAP 260	Medical Assistant Practicum	3
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**Hours** 3

**Total Hours** 28

## Medical Laboratory Technology A.A.S

### 60 Semester Credit Hours

The goal of the Medical Laboratory Technology curriculum is to provide a broad science background and courses in both theoretical and practical aspects of clinical laboratory science. Medical laboratory technicians work to determine the presence, extent or absence of disease and provide data needed to evaluate the effectiveness of treatment in hospitals, clinics, physicians' offices and commercial laboratories. Course offerings include laboratory techniques, principles and physiological significance of tests on all types of body tissues and fluids, from urine and blood to cell samples, and hands-on experience on a wide variety of specialized, high-precision instruments, including centrifuges, electronic counters, automatic analyzers and computers.

**Note:** Refer to page 9 for guidelines on IAI General Education course selection.

### FIRST YEAR

Semester One		Hours
BIO 231	Human Anatomy and Physiology I	4
<b>CHM 121</b>	<b>General College Chemistry I</b>	<b>4</b>
MLT 105	Introduction to Health Care issues	1
MLT 106	Basic Skills in Medical Laboratory Technology	2
MLT 111	Hematology	4
MLT 112	Urinalysis and Body Fluids	2

**Hours** 17

### Semester Two

BIO 232	Human Anatomy and Physiology II	4
BIO 251	Microbiology	4
<b>CHM 122</b>	<b>General College Chemistry</b>	<b>4</b>
MLT 113	Immunohematology/Blood Bank	4
MLT 115	Coagulation	1
MLT 117	Immunology/Serology	1

**Hours** 18

continued

# Degree and Certificate Pathways

## Summer Semester Three

MLT 210	Clinical Practicum I	2
MLT 215	Clinical Chemistry	4

**Hours** 6

## SECOND YEAR

### Semester One

<b>EGL 101</b>	<b>Composition I (also available as AP Language and Composition)</b>	<b>4</b>
MLT 220	Clinical Practicum II	4
MLT 221	Clinical Practicum III	1
MLT 225	Medical Microbiology	2
Select one Social and behavioral Science course		3
Select one Humanities/Fine arts course		3

**Hours** 17

### Semester Two

MLT 230	Clinical Practicum IV	2
MLT 231	Clinical Practicum V	2
MLT 235	Applications in Laboratory Practice	3
Select one from the following:		
<b>EGL 102</b>	<b>Composition II (recommended)</b>	
EGL 111	Introduction to Business and Technical Writing	
EGL 212	Technical Writing Applications	
<b>SPE 103</b>	<b>Effective Speech (recommended)</b>	
Select one Global Studies Course		3
Select one U.S Diversity Studies Course		3
Composition II (recommended)		
Introduction to Business and Technical Writing		
Technical Writing Applications		
Effective Speech (recommended)		

**Hours** 10-16

**Total Hours** 68-74

## Phlebotomy Certificate

The following pathway is recommended for students pursuing the Phlebotomy Certificate. The goal of the Phlebotomy Certificate program is to train individuals to perform phlebotomy procedures, the collection of blood for diagnostic testing. The curriculum at Oakton is in compliance with standardized educational curricula and accepted routes for national certification, in preparation for qualification by national and state agencies. This certificate is of value to health care professionals, including nurses.

### FIRST YEAR

<b>Semester One (Fall or Spring)</b>		<b>Hours</b>
<b>HIT 104</b>	<b>Medical Terminology</b>	<b>3</b>
MLT 105	Introduction to Health Care Issues	1
MLT 107	Phlebotomy	4

**Hours** 8

### Semester Two (Spring or Summer)

MLT 204	Phlebotomy Practicum	2
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**Hours** 2

**Total Hours** 10

## Physical Therapist Assistant A.A.S.

### 69 Semester Credit Hours

The goal of the Physical Therapist Assistant program is to prepare students to provide skilled, direct patient care under the supervision of a licensed physical therapist in a variety of health care settings. Courses at the Des Plaines campus include classroom and laboratory instruction in such therapeutic interventions as heat and cold applications, electrotherapy, and therapeutic exercise. Planned clinical experience is provided in off-campus medical facilities.

See *physical therapist assistant transfer agreement with National Louis University at oakton.edu/admissions/transfer-services*.

**Note:** Refer to page 9 for guidelines on IAI General Education course selection.

### FIRST YEAR

<b>Semester One</b>		<b>Hours</b>
BIO 231	Human Anatomy and Physiology I	4
<b>HIT 104</b>	<b>Medical Terminology</b>	<b>3</b>
PTA 100	Orientation to Physical Therapist Assistant	2
PTA 103	Communication and Interpersonal Skills for PTA	2
PTA 105	Basic Health Skills for the PTA	5

**Hours** 16

<b>Semester Two</b>		
BIO 232	Human Anatomy and Physiology II	4
<b>EGL 101</b>	<b>Composition I (also available as AP Language and Composition)</b>	<b>3</b>
PTA 107	Physical Agents I	3
PTA 110	Therapeutic Exercise I	4
PTA 114	Basic Professional Reading Skills	1
PTA 161	Clinical Practicum I	1

**Hours** 16

### Semester Three (Summer)

<b>PSY 101</b>	<b>Introduction to Psychology</b>	<b>3</b>
PTA 162	Clinical Practicum II	2

**Hours** 5

### SECOND YEAR

<b>Semester One</b>		
PTA 207	Physical Agents II	3
PTA 210	Therapeutic Exercise II	4
PTA 211	Neurology for the PTA	2
PTA 241	Workplace Issues in Physical Therapy	1
PTA 261	Clinical Practicum III	1
Select one from the following:		<b>3</b>

<b>EGL 102</b>	<b>Composition II</b>	
EGL 111	Introduction to Business and Technical Writing	
EGL 212	Technical Writing Applications	
<b>SPE 103</b>	<b>Effective Speech</b>	
Select one from the following:		0-3
EGL 135	Introduction to Native American Literature <sup>1</sup>	
SOC 101	Introduction to Sociology <sup>2</sup>	
SPE 115	Interpersonal Communication Across Cultures <sup>1</sup>	
SSC 105	Introduction to Ethnic Studies <sup>2</sup>	
or other U.S. Diversity Studies course		

**Hours** 14-17

<b>Semester Two</b>		
PTA 218	Clinical Applications in PTA	2
PTA 220	Topics in Pathology for the PTA	3
PTA 230	Advanced Procedures for the PTA	3
PTA 242	Career Strategies for the PTA	1
Select one from the following:		3

HUM 161	Global Cinema <sup>3</sup>	
HUM 165	Introduction to World Music <sup>3</sup>	
PHL 180	Medical Ethics	
PHL 205	World Religions <sup>3</sup>	
PHL 240	Philosophy of Religion <sup>3</sup>	
or other Humanities course		
Select one from the following:		3
ANT 102	Introduction to Social and Cultural Anthropology <sup>3</sup>	
ART 114	Art History: Art of the Non-Western World <sup>2</sup>	
HIS 113	History of Native Americans <sup>1</sup>	
Modern Language courses (202 or higher) <sup>3</sup> or other Global Studies course		

**Hours** 15

### Semester Three (Summer)

PTA 262	Clinical Practicum IV	3
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**Total Hours** 69-72

## Law Enforcement and Criminal Justice A.A.S.

### 60 Semester Credit Hours

The goal of the Law Enforcement and Criminal Justice curriculum is preparation for careers in the field of law enforcement: police and sheriffs' departments, federal and state agencies, retail/hospital/industrial security, and private investigative agencies.

See *law enforcement transfer agreement with Southern Illinois University-Carbondale* at [oakton.edu/admissions/transfer-services](http://oakton.edu/admissions/transfer-services).

**Note:** Refer to page 9 for guidelines on IAI General Education course selection.

### FIRST YEAR

Semester One		Hours
<b>EGL 101</b>	<b>Composition I (also available as AP Language and Composition)</b>	<b>3</b>
LAE 101	Introduction to Criminal Justice	3
LAE 270	Law of Evidence	3
Select one from the following:		3
SOC 101	Introduction to Sociology <sup>1</sup>	
SOC 103	Social Problems <sup>2</sup>	
SSC 105	Introduction to Ethnic Studies <sup>1</sup>	
Select one from the following:		3
PHL 105	Logic	
PHL 106	Ethics	
PHL 205	World Religions <sup>3</sup>	

**Hours** **15**

### Semester Two

LAE 221	Criminal Law	3
LAE 245	Juvenile Delinquency	3
<b>SPE 103</b>	<b>Effective Speech</b>	<b>3</b>
Select one from the following:		3
BIO 109	Plants and Society	
EAS 105	Introduction to Weather and Climate	
EAS 121	Physical Geography	
EAS 205	Environmental Geology	
Select one from the following:		3
PHL 205	World Religions <sup>3</sup>	
PSC 202	International Relations <sup>3</sup>	

**Hours** **15**

### SECOND YEAR

#### Semester One

LAE 121	Police Organization and Administration	3
LAE 122	Police Operations	3
LAE 201	Criminology	3
LAE 223	Criminal Procedures	3
LAE 234	Ethics and Leadership in Policing	3

**Hours** **15**

#### Semester Two

LAE 235	Criminal Investigations	3
LAE 260	Community Relations and Procedural Justice	3
Select three from the following:		9
LAE 130	Vice and Drug Control	
<b>LAE 135</b>	<b>Forensics I</b>	
LAE 140	Introduction to Corrections	
LAE 239	Forensics II	
LAE 240	Police Strategies and Tactics	
LAE 276	Traffic Investigation	

**Hours** **15**

**Total Hours** **60**

<sup>1</sup> Course fulfills the U.S. Diversity Requirement. At least one U.S. Diversity course is required for degree completion.

<sup>2</sup> Course fulfills both, the Global Studies and U.S. Diversity Requirements.

<sup>3</sup> Course fulfills the Global Studies Requirement. At least one Global Studies course is required for degree completion.

## Forensics Certificate

The following pathway is recommended for students pursuing the Forensics Certificate. This certificate provides students with practical hands-on experience in the proper techniques of identifying, processing, collecting, and preserving physical evidence associated with crime scenes. The instruction focuses on the understanding of the criminal justice field, the investigative process, criminal law, and the legal aspects of handling evidence and recovered property. The forensic science/evidence technician supports criminal justice professionals in the investigation and prosecution of criminal activity. Graduates and certificate holders may be employed as forensic evidence technicians, property custodians, arson investigators and investigators for local law enforcement and fire services, federal agencies, local, regional and national crime labs, as well as private industry that includes insurance agencies.

### FIRST YEAR

Semester One		Hours
LAE 101	Introduction to Criminal Justice	3
<b>LAE 135</b>	<b>Forensics I</b>	<b>3</b>
LAE 239	Forensics II	3
<b>Hours</b>		<b>9</b>
<b>Semester Two</b>		
LAE 221	Criminal Law	3
LAE 235	Criminal Investigations	3
LAE 270	Law of Evidence	3
<b>Hours</b>		<b>9</b>
<b>Total Hours</b>		<b>18</b>

## Private Security Certificate

This 18 credit-hour certificate program is designed to serve the needs of individuals who want the core education the Law Enforcement and Criminal Justice program offers. Upon completion, students will be prepared and certified to seek entry level employment positions in the private security field, which include but are not limited to: security officers, loss prevention officers, private inspectors, and private detectives. Completion of the Private Security Certificate also allows students to obtain certification through the state of Illinois as a security officer or private investigator (PERC Certification).

### Courses for a Certificate

LAE 101	Introduction to Criminal Justice	3
LAE 122	Police Operations	3
<b>LAE 135</b>	<b>Forensics I</b>	<b>3</b>
LAE 221	Criminal Law	3
LAE 235	Criminal Investigations	3
LAE 275	Security Guard Training	3
<b>Total Hours</b>		<b>18</b>

**Don't have dual credit forensics at your high school?**

Get college credit for high school forensics classes via challenge exam. Ask your Oakton Advisor for more information.

# Degree and Certificate Pathways

## Supply Chain Automation A.A.S.

### 60 Semester Credit Hours

The Supply Chain and Automation Program prepares students for an industrial certification designed to develop the skills and knowledge necessary to enter into the growing field of supply chain logistics, advanced manufacturing, transportation and warehousing. Students will demonstrate skills in overall automated processes and procedures used in warehousing, productions, inventory control, and distribution.

**Note:** Refer to page 9 for guidelines on IAI General Education course selection.

### FIRST YEAR

Fall Semester		Hours
<b>EGL 101</b>	<b>Composition I (also available as AP Language and Composition)</b>	<b>3</b>
MAT 114	Applied Mathematics I	4
<b>MFG 102</b>	<b>Industrial Drafting and Design</b>	<b>3</b>
MFG 112	Introduction to Automation	3
MFG 240	Programmable Logic Controllers (PLC)	4
<b>Hours</b>		<b>17</b>

### Spring Semester

ELT 101	Introduction to Electronics	5
MFG 135	Fluid Power Tools	4
MFG 245	Programmable Automation Controllers (PAC)	4
Select one from the following:		<b>3</b>
<b>EGL 102</b>	<b>Composition II</b>	
EGL 111	Introduction to Business and Technical Writing	
EGL 212	Technical Writing Applications	
<b>SPE 103</b>	<b>Effective Speech</b>	
<b>Hours</b>		<b>16</b>

### SECOND YEAR

#### Fall Semester

ELT 107	Survey of Electronics	3
<b>MFG 120</b>	<b>Introduction to Welding</b>	<b>3</b>
MFG 210	Industrial Robotics and Automation	4
Select one of the following electives <sup>1</sup> :		2-4
<b>CNS 105</b>	<b>Networking Essentials</b>	
ELT 120	Introduction to Radio Frequency Identification	
MFG 101	Occupational Safety	
<b>MFG 125</b>	<b>Advanced Welding</b>	
MFG 170	Automation Equipment Maintenance	
MFG 220	Automation Vision Systems	
MFG 230	Automation Equipment Repair	
MFG 250	Advanced Automation Controllers	
<b>Hours</b>		<b>12-14</b>

#### Spring Semester

MEC 220	Elements of Machine Design	3
MFG 225	Motors and Controls	3
Select one elective course not taken previously:		<b>2-4</b>
<b>CNS 105</b>	<b>Networking Essentials</b>	
ELT 120	Introduction to Radio Frequency Identification	
MFG 101	Occupational Safety	
<b>MFG 125</b>	<b>Advanced Welding</b>	
MFG 170	Automation Equipment Maintenance	
MFG 220	Automation Vision Systems	
MFG 230	Automation Equipment Repair	
MFG 250	Advanced Automation Controllers	
Select one Social and Behavioral Sciences course that also satisfies Global Studies <sup>2</sup> or U.S. Diversity Studies <sup>3</sup> requirement		3
Select one Humanities/Fine Arts course that also satisfies Global Studies <sup>2</sup> or U.S. Diversity Studies <sup>3</sup> requirement		3
<b>Hours</b>		<b>15-16</b>
<b>Total Hours</b>		<b>60-63</b>

<sup>1</sup> Electives must total a minimum of 6 credit hours.

<sup>2</sup> At least one Global Studies course is required for degree completion.

<sup>3</sup> At least one U.S. Diversity course is required for degree completion.

See *manufacturing transfer guides* with Southern Illinois University-Carbondale and Governors State University at [oakton.edu/admissions/transfer-services](http://oakton.edu/admissions/transfer-services).

## Advanced Mechatronics A.A.S. Pathway

The following Pathway is recommended for students pursuing an Associate in Applied Science degree in Advanced Mechatronics.

**Note:** Refer to page 9 for guidelines on IAI General Education course selection.

### FIRST YEAR

Fall Semester		Hours
<b>EGL 101</b>	<b>Composition I (also available as AP Language and Composition)</b>	<b>3</b>
MAT 114	Applied Mathematics I	4
<b>MFG 102</b>	<b>Industrial Drafting and Design</b>	<b>3</b>
MFG 112	Introduction to Automation	3
MFG 240	Programmable Logic Controllers (PLC)	4
<b>Hours</b>		<b>17</b>

### Spring Semester

ELT 101	Introduction to Electronics	5
MFG 135	Fluid Power and Controls	4
MFG 245	Programmable Automation Controllers (PAC)	4
Select one of the following:		3
<b>EGL 102</b>	<b>Composition II</b>	
EGL 111	Introduction to Business and Technical Writing (recommended)	
EGL 212	Technical Writing Applications (recommended)	
<b>SPE 103</b>	<b>Effective Speech</b>	
<b>Hours</b>		<b>16</b>

### SECOND YEAR

#### Fall Semester

ELT 106	Semiconductor Theory	3
MFG 210	Industrial Robotics and Automation	4
MFG 220	Automation Vision Systems	3
MFG 250	Advanced Automation Controllers	4
<b>Hours</b>		<b>14</b>

#### Spring Semester

ELT 224	Industrial Circuit Applications	
or MFG 225	Motors and Controls	3
Select two of the following:		6-8
ELT 110	Electronic Drafting Using CAD	
<b>ELT 221</b>	<b>Digital Circuit Fundamentals</b>	
ELT 223	Integrated Circuits	
MFG 170	Automation Equipment Maintenance	
MFG 230	Automation Equipment Repair	
MFG 270	Automation Equipment Controls	
Select one Social and Behavioral Sciences course that also satisfies Global Studies <sup>1</sup> or U.S. Diversity Studies <sup>2</sup> requirement		3
Select one Humanities/Fine Arts course that also satisfies Global Studies <sup>1</sup> or U.S. Diversity Studies <sup>2</sup> requirement		3
<b>Hours</b>		<b>15-17</b>
<b>Total Hours</b>		<b>62-64</b>

<sup>1</sup> Students may take a Global Studies course that satisfies both Area F and another Area requirement.

<sup>2</sup> Students may take a U.S. Diversity course that satisfies both Area G and another Area requirement.

## Advanced Manufacturing Certificate Pathway

The following pathway is recommended for students pursuing the Manufacturing Technology Certificate. This certificate offers a general multi-purpose curriculum which covers a broad area of manufacturing technology.

### FIRST YEAR

Semester One		Hours
MFG 101	Occupational Safety	2
<b>MFG 110</b>	<b>Introduction to Machining</b>	<b>3</b>
<b>MFG 111</b>	<b>Introduction to Computer Integrated Manufacturing (CIM)</b>	<b>3</b>
MFG 240	Programmable Logic Controllers (PLC)	4
<b>Hours</b>		<b>12</b>

### Semester Two

<b>MFG 102</b>	<b>Industrial Drafting and Design</b>	<b>3</b>
MFG 135	Fluid Powers and Controls	4
MFG 141	CNC Machine Operations - NIMS	4
Select one from the following:		3-4
<b>MFG 120</b>	<b>Introduction to Welding</b>	
<b>MFG 125</b>	<b>Advanced Welding</b>	
MFG 170	Automation Equipment Maintenance	
MFG 245	Programmable Automation Controllers (PAC)	
<b>Hours</b>		<b>14-15</b>

### SECOND YEAR

Fall Semester		Hours
MFG 210	Industrial Robotics and Automation	4
Select one from the following:		4
MFG 144	Introduction to CNC Programming	
MFG 165	Mastercam (CAM)	
Select one from the following:		3-4
<b>MFG 120</b>	<b>Introduction to Welding</b>	
<b>MFG 125</b>	<b>Advanced Welding</b>	
MFG 170	Automation Equipment Maintenance	
MFG 245	Programmable Automation Controllers (PAC)	
MFG 250	Advanced Automation Controllers	
<b>Hours</b>		<b>11-12</b>
<b>Total Hours</b>		<b>37-39</b>

## Welding Technician Certificate

Welding is used by various trades ranging from artistic sculptures to heavy metal fabrication of bridges and ships. The certificate follows standards of American Welding Society (AWS). It covers training of major welding technologies including Shielded Metal (SMAW), Gas Metal (MIG), and Gas Tungsten (TIG) with emphasis on OSHA safety regulations. This certificate can be completed in one semester.

Courses for a Certificate		Hours
MFG 101	Occupational Safety	2
<b>MFG 102</b>	<b>Industrial Drafting and Design</b>	<b>3</b>
<b>MFG 111</b>	<b>Introduction to Computer Integrated Manufacturing (CIM)</b>	<b>3</b>
<b>MFG 120</b>	<b>Introduction to Welding</b>	<b>3</b>
<b>MFG 125</b>	<b>Advanced Welding</b>	<b>3</b>
or MEC 105	Processes and Materials	
<b>Total Hours</b>		<b>14</b>

## Advanced CNC Certificate Pathway

The following Pathway is recommended for students pursuing the Advanced CNC Certificate.

### FIRST YEAR

Spring Semester		Hours
MFG 101	Occupational Safety	2
<b>MFG 102</b>	<b>Industrial Drafting and Design</b>	<b>3</b>
<b>MFG 110</b>	<b>Introduction to Machining</b>	<b>3</b>
MFG 144	Introduction to CNC Programming	4
<b>Hours</b>		<b>12</b>

### Fall Semester

MFG 165	Mastercam (CAM)	4
MFG 210	Industrial Robotics and Automation	4
MFG 240	Programmable Logic Controllers (PLC)	4
<b>Hours</b>		<b>12</b>

### SECOND YEAR

Spring Semester		Hours
MFG 141	CNC Machine Operation - NIMS	4
Select one of the following:		4
MFG 145	Advanced CNC Programming	
MFG 166	Advanced Mastercam	
MFG 245	Programmable Automation Controllers (PAC)	
<b>Hours</b>		<b>8</b>
<b>Total Hours</b>		<b>32</b>

## Production Technician Certificate

Certificate provides fundamental knowledge and skills for entry-level production workers seeking jobs in modern manufacturing. Graduates will have an understanding of manufacturing processes and technical skills required for the position. This certificate can be completed in one semester.

Courses for a Certificate		Hours
MFG 101	Occupational Safety	2
<b>MFG 102</b>	<b>Industrial Drafting and Design</b>	<b>3</b>
Select two courses from the following:		6
<b>MFG 110</b>	<b>Introduction to Machining</b>	
<b>MFG 111</b>	<b>Introduction to Computer Integrated Manufacturing (CIM)</b>	
MFG 112	Introduction to Automation	
<b>Total Hours</b>		<b>11</b>

# Degree and Certificate Pathways

## Mechanical Design/CAD A.A.S.

### 60 Semester Credit Hours

The following pathway is recommended for students pursuing an Associate in Applied Science degree in Mechanical Design/CAD. The Mechanical Design/CAD A.A.S. degree curriculum focuses on preparing students for job positions in mechanical design, architectural design, interior design and building information management.

**Note:** Refer to page 9 for guidelines on IAI General Education course selection.

### FIRST YEAR

Semester One		Hours
<b>EGL 101</b>	<b>Composition I</b> (also available as <i>AP Language and Composition</i> )	<b>3</b>
<b>CAD 116</b>	<b>Basic AutoCAD</b>	<b>3</b>
ENG 120	Engineering Graphics	3
MEC 105	Processes and Materials	3
CAD 230	Introduction to SolidWorks	4
<b>Hours</b>		<b>16</b>

### Semester Two

MAT 114	Applied Mathematics I	4
<b>CAD 117</b>	<b>Intermediate AutoCAD</b>	<b>4</b>
MEC 220	Elements of Machine Design	3
CAD 232	Intermediate SolidWorks	4
<b>Hours</b>		<b>15</b>

### SECOND YEAR

#### Semester One

PHY 101	Applied Physics	4
CAD 118	Advanced AutoCAD	4
MEC 230	Statics and Strength of Materials	3
CAD 234	Advanced SolidWorks	4
<b>CIS 101</b>	<b>Introduction to Computer Information Systems</b>	<b>3</b>
<b>Hours</b>		<b>18</b>

#### Semester Two

<b>CAD 107</b>	<b>Introduction to 3D Printing</b>	<b>4</b>
Select one from the following:		3
<b>EGL 102</b>	<b>Composition II</b>	
EGL 111	Introduction to Business and Technical Writing	
EGL 212	Technical Writing Applications	
<b>SPE 103</b>	<b>Effective Speech</b>	
Select one from the following:		3
HUM 165	Introduction to World Music <sup>1</sup>	
HUM 210	World Mythologies <sup>1</sup>	
PHL 205	World Religions <sup>1</sup>	
Select one from the following:		3
SOC 101	Introduction to Sociology <sup>2</sup>	
SOC 103	Social Problems <sup>2</sup>	
SSC 105	Introduction to Ethnic Studies <sup>2</sup>	
<b>Hours</b>		<b>13</b>
<b>Total Hours</b>		<b>62</b>

<sup>1</sup> Course fulfills the Global Studies requirement. At least one Global Studies course is required for degree completion.

<sup>2</sup> Course fulfills the U.S. Diversity Studies requirement. At least one U.S. Diversity Studies course is required for degree completion.

<sup>3</sup> Course fulfills both the Global Studies and U.S. Diversity Studies requirements.

## Mechanical Design/CAD Certificate

The following pathway is recommended for students pursuing the Mechanical Design/CAD Certificate. This certificate offers a general multi-purpose curriculum that covers a concentrated area of mechanical design/CAD courses. This certificate prepares students for job positions in mechanical design, architectural design, interior design and building information management.

### FIRST YEAR

Semester One		Hours
<b>CAD 116</b>	<b>Basic AutoCAD</b>	<b>3</b>
ENG 120	Engineering Graphics	3
MEC 105	Processes and Materials	3
<b>CIS 101</b>	<b>Introduction to Computer Information Systems</b>	<b>3</b>
Select one elective from CAD, FME, GIS, MEC or MFG		4
<b>Hours</b>		<b>16</b>

### Semester Two

<b>CAD 117</b>	<b>Intermediate AutoCAD</b>	<b>4</b>
CAD 118	Advanced AutoCAD	4
MEC 220	Elements of Machine Design	3
MEC 230	Statics and Strength of Materials	3
<b>Hours</b>		<b>14</b>

### Total Hours

**30**

## Industrial Design Engineering Certificate

The following pathway is recommended for students pursuing the Industrial Design Engineering Certificate. This certificate prepares students for CAD drafting positions using parametric modeling software, such as SolidWorks and Inventor, to design and 3D print computer models. Students will become proficient in 3D computer modeling and 2D drafting and annotation of part drawing techniques for manufacturing. Possible job positions include: industrial draftsman, 3D print technician, and mechanical designer.

### FIRST YEAR

Semester One		Hours
<b>CAD 116</b>	<b>Basic AutoCAD</b>	<b>3-4</b>
or CAD 230	or Introduction to SolidWorks	
<b>Hours</b>		<b>3-4</b>

### Semester Two

<b>CAD 107</b>	<b>Introduction to 3D Printing</b>	<b>4</b>
<b>CAD 117</b>	<b>Intermediate AutoCAD</b>	<b>4</b>
or CAD 232	Intermediate SolidWorks	
<b>Hours</b>		<b>8</b>

### SECOND YEAR

#### Semester One

<b>CAD 210</b>	<b>Industrial Design Techniques</b>	<b>4</b>
<b>Hours</b>		<b>4</b>

### Total Hours

**15-16**

## Computer-Aided Design Certificate

The Computer-Aided Design Certificate prepares students for CAD drafting job positions using AutoCAD software. Students will become proficient in drawing setup and drafting techniques for mechanical and architectural applications as well as general design fundamentals using CAD. Possible job positions include: mechanical draftsman, architectural draftsman, and general design draftsman. This certificate can be completed in one semester.

Courses for a Certificate		Hours
<b>CAD 116</b>	<b>Basic AutoCAD</b>	<b>3</b>
<b>CAD 117</b>	<b>Intermediate AutoCAD</b>	<b>4</b>
CAD 118	Advanced AutoCAD	4

### Total Hours

**11**

## CAD Interior Design Certificate

The CAD Interior Design Certificate prepares students for CAD drafting positions tailored towards interior design using AutoCAD for 2D and 3D design and drafting. Students will become proficient in creating floor plans and elevation drawings using AutoCAD and creating 3D computer models of interior floor plans. Possible job positions include CAD draftsman and interior detail draftsman. This certificate can be completed in one semester.

Courses for a Certificate		Hours
<b>CAD 134</b>	<b>Basic AutoCAD for Interior Design</b>	<b>4</b>
CAD 136	Advanced AutoCAD for Interior Design	4
<b>Total Hours</b>		<b>8</b>

## General Design Certificate

The General Design Certificate prepares students for general drafting positions using a variety of CAD software like AutoCAD, Inventor, Revit, and SolidWorks to design 2D and 3D CAD models and detail drawings. Possible job positions include CAD draftsman and general CAD designer.

Courses for a Certificate		Hours
Select nineteen credit hours in CAD, FME or GIS courses:		19
<b>CAD 105</b>	<b>Industrial Design Engineering</b>	<b>4</b>
<b>CAD 107</b>	<b>Introduction to 3D Printing</b>	<b>4</b>
<b>CAD 116</b>	<b>Basic AutoCAD</b>	<b>3</b>
<b>CAD 117</b>	<b>Intermediate AutoCAD</b>	<b>4</b>
CAD 118	Advanced AutoCAD	4
<b>CAD 134</b>	<b>Basic AutoCAD for Interior Design</b>	<b>4</b>
CAD 136	Advanced AutoCAD for Interior Design	4
<b>CAD 210</b>	<b>Industrial Design Techniques</b>	<b>4</b>
<b>CAD 220</b>	<b>Introduction to Building Information Modeling - Revit</b>	<b>4</b>
<b>CAD 224</b>	<b>Advanced Building Information Modeling - Revit</b>	<b>4</b>
CAD 228	Revit MEP – Mechanical Electrical Plumbing	4
CAD 230	Introduction to SolidWorks	4
CAD 232	Intermediate SolidWorks	4
CAD 234	Advanced SolidWorks	4
CAD 240	Introduction to Autodesk Inventor	3
GIS/EAS 190	Geographic Information Systems I	4
<b>Total Hours</b>		<b>19</b>

## Revit – Building Information Modeling (BIM) Certificate

The following pathway is recommended for students pursuing the Revit – Building Information Modeling (BIM) Certificate. This certificate prepares students for CAD design and drafting positions using Building Information Modeling software. BIM is an intelligent 3D model-based process that gives architecture, engineering, and construction (AEC) professionals the insight and tools to more efficiently plan, design, construct, and manage buildings and infrastructure. Possible job positions include building information modeler, architectural draftsman and interior draftsman.

### FIRST YEAR

Semester One		Hours
<b>CAD 220</b>	<b>Introduction to Building Information Modeling - Revit</b>	<b>4</b>
<b>Hours</b>		<b>4</b>

Semester Two		Hours
<b>CAD 224</b>	<b>Advanced Building Information Modeling - Revit</b>	<b>4</b>
or CAD 228	or Revit MEP – Mechanical Electrical Plumbing	
<b>Hours</b>		<b>4</b>

### SECOND YEAR

Semester One		Hours
<b>CAD 224</b>	<b>Advanced Building Information Modeling - Revit</b>	<b>4</b>
or CAD 228	or Revit MEP – Mechanical Electrical Plumbing	
<b>Hours</b>		<b>4</b>
<b>Total Hours</b>		<b>12</b>

## Technical Communication Certificate

The Technical Communication Certificate is designed for people with experience and/or education in specific fields who wish to improve their technical communication skills. Students will learn technical writing skills and apply them to a chosen career area. Fields in which technical information is conveyed include software development, engineering, manufacturing, health care, instructional design, marketing, and many other areas in business and industry.

Courses for a Certificate		Hours
<b>Communication</b>		
EGL 111	Introduction to Business and Technical Writing	3
EGL 211	Writing Digital Content	3
EGL 212	Technical Writing Applications	3
SPE 140	Professional Presentations	3
<b>Design</b>		
<b>GRD 101</b>	<b>Introduction to Visual Communication</b>	<b>3</b>
ART 216	Introduction to Digital Imaging	3
or CAB 172	or Adobe Photoshop	
ART 259	Introduction to Web Design	3
Electives <sup>1</sup>		
Select nine credit hours from the following (courses may be chosen from one or several disciplines):		9
<b>Graphic Design</b>		
ART 225	Graphic Design Layout and Typography	
ART 250	Introduction to Computer Art	
ART 260	Introduction to 3D Animation and Multimedia	
ART 278	The Digital Darkroom	
<b>Computer Applications for Business</b>		
CAB 150	Visio Fundamentals	
CAB 165	Adobe InDesign	
<b>Computer-Aided Design</b>		
<b>CAD 116</b>	<b>Basic AutoCAD</b>	
<b>CAD 117</b>	<b>Intermediate AutoCAD</b>	
CAD 118	Advanced AutoCAD	
<b>Computer Information Systems</b>		
CIS 131	Web Page Development	
CIS 152	Web Development Tools	
CIS 214	Web Site Maintenance and Management	
CIS 232	Web Scripting	
CIS 248	Web Database Management	
<b>Marketing</b>		
MKT 131	Principles of Marketing	
MKT 134	Fundraising and Grant Writing	
<b>Total Hours</b>		<b>30</b>

# Basic Nurse Assistant Training Program



## Become a certified nursing assistant while you're in high school

Prepare for an entry-level position in nurse assisting with two classes taken at your high school through dual credit. Oakton's eight-credit Basic Nurse Assistant Training (BNAT) certificate will launch your career in health care. CNAs perform basic nursing functions such as personal care, taking vital signs and ambulation under the supervision of a registered nurse. You will gain skills through hands-on clinical experiences at local health care facilities in addition to your time in the classroom. Jobs for CNAs are in high demand. The certificate also prepares you for entry into Oakton's competitive nursing program.

The BNAT dual-credit program is available at Maine East, Maine West, Niles West, and Niles North High Schools and will be coming to Evanston Township High School in fall 2024. We graduated 78 students from the program in 2023. Join us this year!



# Make a Plan: Complete a college credential while in high school

These are three credentials that students can earn by taking dual credit classes. Use the planning worksheet to plan how and when you will complete these while pursuing your high school diploma.

## Basic Nurse Assistant Training Certificate

The certificate prepares students for entry-level positions in nurse assisting and also prepares them for entry into Oakton's competitive nursing program. In 2021, more than 70 high school students earned their BNAT certificate while still in high school.

In 2023-24, this eight-credit certificate can be completed entirely through dual credit by students attending Maine East, Maine West, Maine South, Niles North, Niles West High Schools. Beginning in 2024-25: ETHS.

See page 25 for more details.

Courses for a Certificate		Hours
BNA 100	Basic Nurse Assistant Training	7
BNA 105	Basic Nurse Assistant Job Training	1
<b>Total Hours</b>		<b>8</b>

## General Design Certificate

The General Design Certificate prepares students for general drafting positions using a variety of CAD software like AutoCAD, Inventor, Revit, and SolidWorks to design 2D and 3D CAD models and detail drawings. Possible job positions include CAD draftsman and general CAD designer.

In 2023-24, New Trier students can complete this 19-credit certificate while still in high school through dual credit.

See page 31 for more details.

Courses for a Certificate		Hours
CAD 105	Industrial Design Engineering	4
CAD 107	Introduction to 3D Printing	4
CAD 116	Basic AutoCAD	3
CAD 117	Intermediate AutoCAD	4
CAD 134	Basic AutoCAD for Interior Design	4
CAD 210	Industrial Design Techniques	4
CAD 220	Introduction to Building Information Modeling - Revit	4
<b>Total Hours</b>		<b>19</b>

## Industrial Design Engineering Certificate

If you're interested in a career in engineering, a strong foundation in industrial design is a great place to start. From 3D computer modeling to 2D drawing, this certificate will give you strong technical skills to pursue a job in the field or give you a leg up for your engineering degree.

In 2023-24, New Trier students can complete this 16-credit certificate while still in high school through dual credit.

See page 30 for more details.

Courses for a Certificate		Hours
CAD 116	Basic AutoCAD	4
CAD 107	Introduction to 3D Printing	4
CAD 117	Intermediate AutoCAD	4
CAD 210	Industrial Design Techniques	4
<b>Total Hours</b>		<b>16</b>

## Course Planning Worksheet

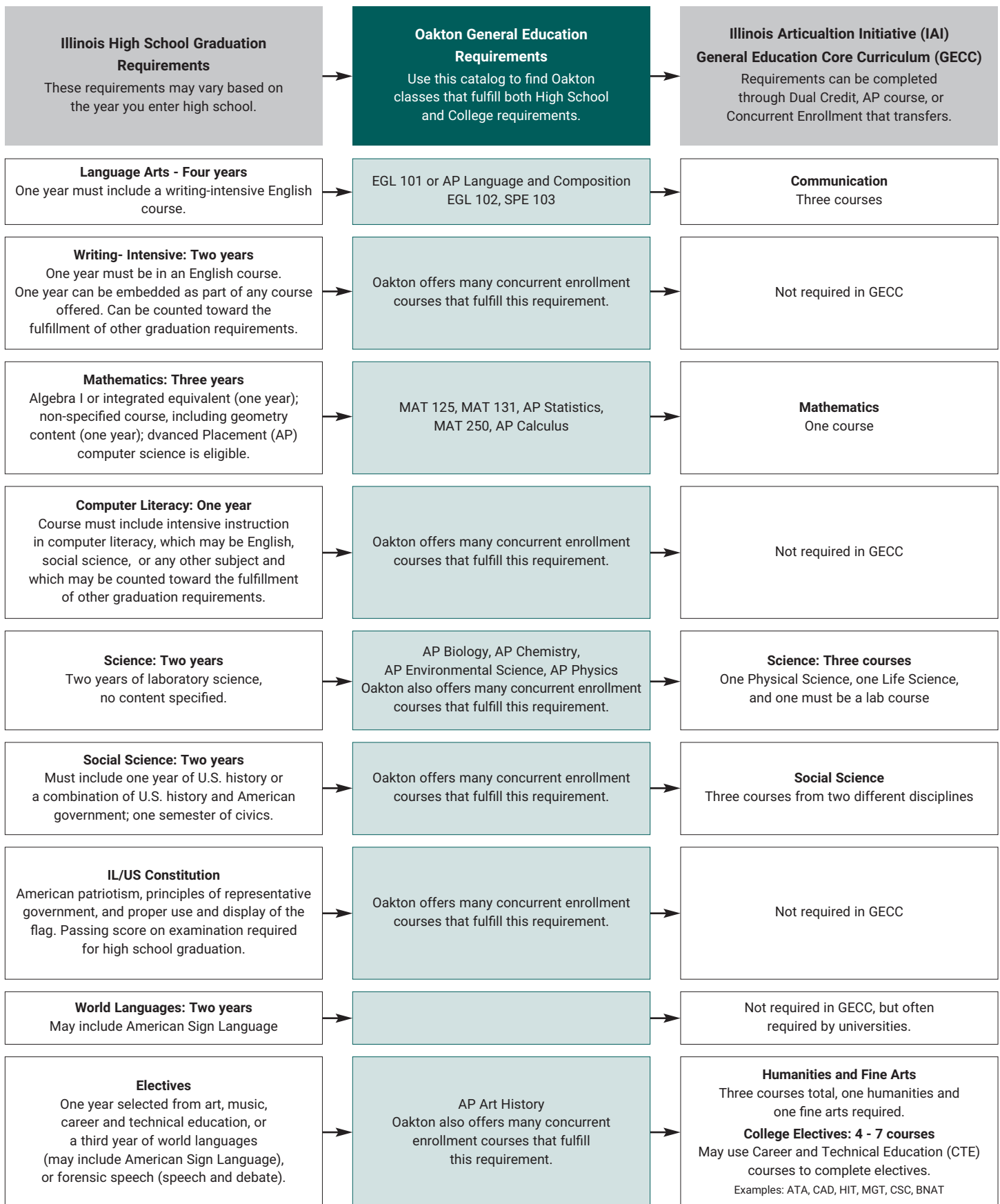
YEAR ONE	FALL	SPRING	SUMMER
Credits			
Other			

YEAR TWO	FALL	SPRING	SUMMER
Credits			
Other			

YEAR THREE	FALL	SPRING	SUMMER
Credits			
Other			

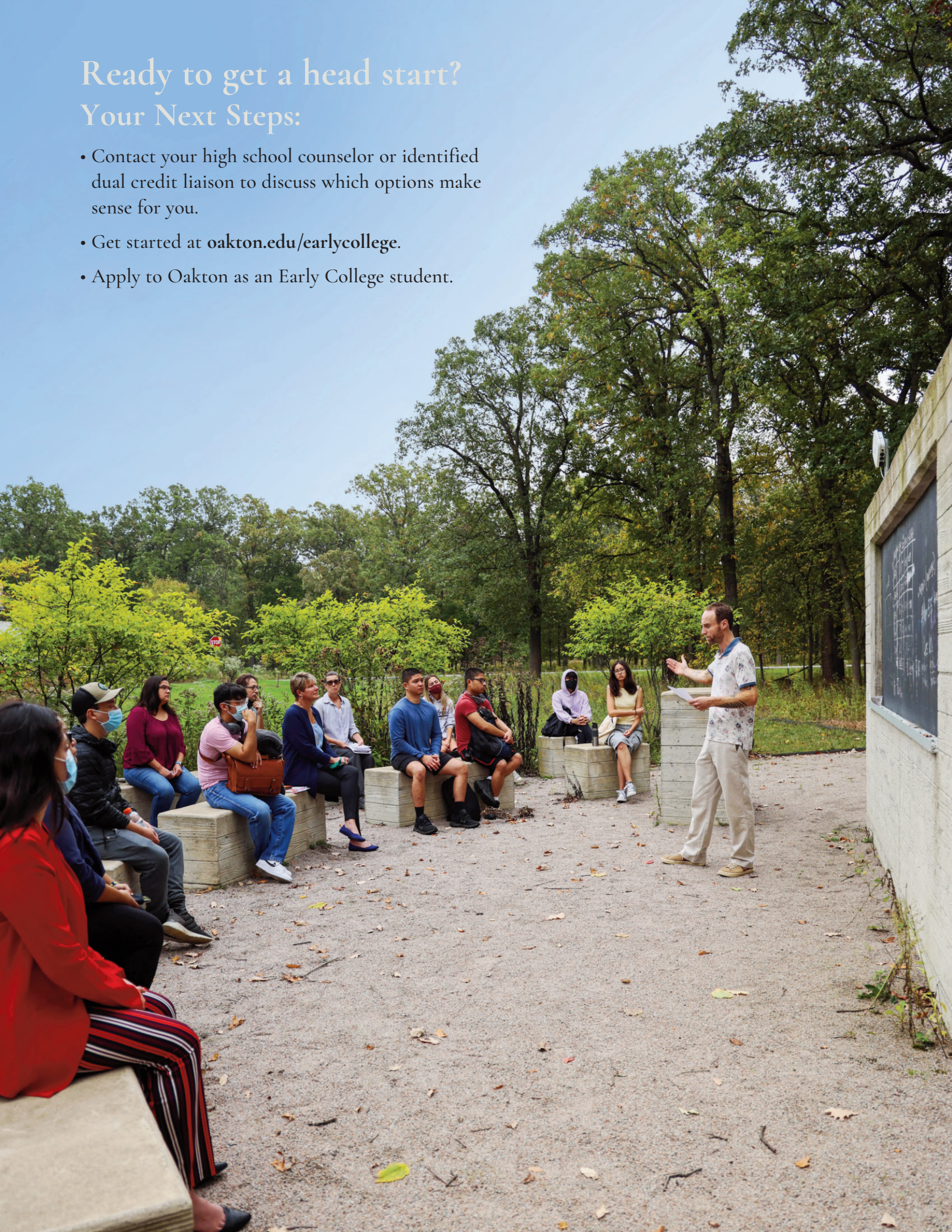
YEAR FOUR	FALL	SPRING	SUMMER
Credits			
Other			

With Early College and an intentional plan, you can make progress toward (or complete!) an associate degree while you're in high school. Here's how the credits can overlap.



# Ready to get a head start? Your Next Steps:

- Contact your high school counselor or identified dual credit liaison to discuss which options make sense for you.
- Get started at [oakton.edu/earlycollege](http://oakton.edu/earlycollege).
- Apply to Oakton as an Early College student.





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