

# Early College 2024-25

- 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 34.

**Dual Credit** ..... pages 3-5

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

**Concurrent Enrollment** ..... pages 6-10

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

**Advanced Placement (AP) Credit** ..... page 11

Apply your high school AP credits toward your degree.

**Degree and Certificate Pathways** ..... pages 12-32

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

**Dual Credit Profiles and Testimonials** ..... pages 33-34

**Early College Planning** ..... pages 35-36



# Oakton Institutional Policies

Early College students are subject to all Oakton College academic and student policies. These are denoted in the College Catalog at [catalog.oakton.edu](http://catalog.oakton.edu). Additional institutional policies and legal notices, including the Code of Student Conduct and Student Right to Know are available at [oakton.edu/policies](http://oakton.edu/policies).

## Withdrawing from Early College Coursework

### • Dual Credit

Students have the right to withdraw from any Oakton college course. Students should consult with their high school counselor on specific high school procedures and deadlines to withdraw from high school credit for the course. Please note the withdrawal process for dual credit students follows the same deadlines as traditional Oakton students, which is indicated on the current academic calendar at [oakton.edu/calendar](http://oakton.edu/calendar). Fall semester courses follow the fall deadlines. Spring and year long dual credit courses follow the spring withdrawal deadlines.

It is the responsibility of the high school to notify Oakton, in writing, when a student is withdrawing from class(es). High school personnel will initiate the withdrawal process by completing a Dual Credit Withdrawal Form. Completed forms should be sent to [dualcredit@oakton.edu](mailto:dualcredit@oakton.edu).

Students who withdraw from dual credit coursework within the first four weeks of the Oakton semester will have the course completely removed from their Oakton transcript. Students who officially withdraw from class(es) after that date, but before the final withdrawal deadline will have the class(es) listed with a (W); indicating withdrawal on their Oakton transcript. Please note a transcripted withdrawal indicator (W) can have an impact on a student's future ability to receive financial aid.

### • Concurrent Enrollment

Students have the right to withdraw from any Oakton college course. Students withdrawing from concurrent enrollment classes follow the same process as traditional students. Please visit [oakton.edu/withdrawal](http://oakton.edu/withdrawal) for more detailed information.

## Additional Considerations

Early College courses offered to high school students are college-level courses that require 2-3 hours of outside work for each hour in class. College courses may deal with controversial subject matter that is not typically found in high school curricula. College course expectations, course materials, and evaluation practices are outlined in each course syllabus.

Early college courses offer a multitude of benefits, participants should also be aware of the impact of these courses on their high school and college transcripts. Students should always work to their best ability as all grades earned in these courses will be awarded on both their high school and college transcript.

## Transferring Credit to Other Colleges

To obtain your official transcript or to have it sent to another college or university to receive transfer credit, visit [www.oakton.edu/student-services/records](http://www.oakton.edu/student-services/records). You can also view your grades or print out an unofficial transcript by logging into *myOakton* and selecting 'Student Profile' and then 'Academic Transcript' on the left hand side of the page.

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  
 ATA 102 Introduction to Automotive Technology  
 BNA 100 Basic Nurse Assistant Training  
 BNA 105 Basic Nurse Assistant Job Training  
 BIO 101 Introduction to Life Science  
 BIO 115 Animals in Society  
 CAD 105 Industrial Design Engineering  
 CAD 210 Industrial Design Techniques  
 CAD 220 Introduction to Building Information Modeling - Revit  
 ELT 221 Digital Circuit Fundamentals  
 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  
 MAT 252 Calculus III  
 MAT 260 Introduction to Linear Algebra  
 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

# Dual Credit

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)

PHT 125 Pharmacy Technician  
PHT 251 Clinical Practicum

## MUSLIM COMMUNITY CENTER (MCC) ACADEMY

EGL 101 Composition I  
EGL 102 Composition II  
HIS 111 United States History to 1877  
PSY 101 Introduction to Psychology  
SOC 101 Introduction to Sociology  
SPE 103 Effective Speech

## 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  
CNS 105 Networking Essentials  
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  
CNS 105 Networking Essentials  
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>12-13</b>	<b>Graphic Design</b> .....	<b>22-23</b>
Accounting Associate A.A.S.*		Graphic Design A.A.S.	
Associate of Arts (A.A.)		Photography Certificate	
Business/Accounting Pre-major			
Accounting Associate Certificate			
<b>Automotive Technology</b> .....	<b>13-15</b>	<b>Health Careers</b> .....	<b>23-27</b>
Automotive Technology A.A.S.*		Health Information Technology A.A.S.*	
Automotive Electrical Systems Certificate		Cardiac Sonography A.A.S. Pathway	
Automotive Engines Certificate		Radiography A.A.S. Pathway	
Automotive Engine Performance and Emissions Certificate		Surgical Technology A.A.S. Pathway	
Automotive Heating and Air Conditioning Certificate		Medical Laboratory Technology A.A.S.	
Automotive Transmission and Powertrain Certificate		Medical Assistant Certificate	
Automotive Under Car Certificate		Medical Coding and Billing Certificate	
		Basic Nurse Assistant Training Certificate	
<b>Computers and Information Systems</b> .....	<b>15-18</b>	Pharmacy Technician Certificate	
Computers and Information Systems A.A.S.*		Phlebotomy Certificate	
Software Developer A.A.S.		Physical Therapist Assistant A.A.S.*	
Management of Information Systems (MIS) Certificate			
Software Developer Certificate Pathway		<b>Law Enforcement and Criminal Justice</b> .....	<b>27-28</b>
Internet and Computer Core (IC3) Certificate		Law Enforcement and Criminal Justice A.A.S.*	
PC Support Specialist Certificate		Forensics Certificate	
		Private Security Certificate	
<b>Computer Networking and Systems</b> .....	<b>18-19</b>	<b>Manufacturing Technology</b> .....	<b>28-30</b>
Computer Networking and Systems A.A.S.		Supply Chain Automation A.A.S.*	
Network Security Administrator Certificate		Advanced Mechatronics A.A.S. Pathway	
Windows Server Administration Certificate		Advanced Manufacturing Certificate Pathway	
Windows Support Technician Certificate		Welding Technician Certificate	
Network Security Administration A.A.S.		Advanced CNC Certificate Pathway	
		Production Technician Certificate	
<b>Early Childhood Education</b> .....	<b>19-21</b>	<b>Mechanical Design/CAD</b> .....	<b>30-32</b>
Early Childhood Education A.A.S.*		Mechanical Design/CAD A.A.S.	
Basic Early Childhood Education Certificate		Mechanical Design/CAD Certificate	
Advanced Early Childhood Education Certificate		Industrial Design Engineering Certificate	
Basic Infant Toddler Certificate		Computer-Aided Design Certificate	
Advanced Infant Toddler Certificate		CAD Interior Design Certificate	
Basic Family Child Care Provider Certificate		General Design Certificate	
Advanced Family Child Care Provider Certificate		Revit – Building Information Modeling (BIM) Certificate	
Early Childhood Education Administration Certificate			
<b>Electronics and Computer Technology</b> .....	<b>21-22</b>	<b>Technical Communication</b> .....	<b>32</b>
Electronics and Computer Technology A.A.S.		Technical Communication Certificate	
Electronics Technology Certificate			
Electronics Computer Technician 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.

# Concurrent Enrollment

## 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.



## 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**

# Concurrent Enrollment

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 IAI 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 details 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)</b> (also available as AP Language and Composition) <sup>1</sup>	<b>3</b>
<b>EGL 102</b> <b>Composition II (C1 901R)</b> <sup>1</sup>	<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
CSC 144 Discrete Mathematics (M1 905)	3
<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>	
<b>BIO 101</b> <b>Introduction to Life Science (L1 900L)</b>	<b>4</b>
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)</b> <sup>1</sup>	<b>4</b>
BIO 109 Plants and Society (L1 901)	3
<b>BIO 115</b> <b>Animals in Society (L1 902L)</b>	<b>4</b>
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

<b>History</b>						
<b>HIS 111</b>	<b><i>United States History to 1877 (S2 900)</i></b>	<b>3</b>		EGL 137	Introduction to Asian American Literature (H3 910D)	2
<b>HIS 112</b>	<b><i>United States History from 1877 (S2 901)</i></b>	<b>3</b>		EGL 141	Introduction to Children's Literature (H3 918)	3
HIS 113	History of Native Americans (S2 923D) <sup>3</sup>	3		EGL 221	American Literature I: Beginnings to 1865 (H3 914) <sup>2</sup>	3
HIS 114	Introduction to African American History (S2 923D) <sup>2</sup>	3		EGL 222	American Literature II (from The Civil War to the Present) (H3 915) <sup>2</sup>	3
<b>HIS 131</b>	<b><i>Western Civilization to 1650 (S2 902)</i></b>	<b>3</b>		EGL 231	British Literature I (from Anglo-Saxons to 1800) (H3 912)	3
<b>HIS 132</b>	<b><i>Western Civilization since 1650 (S2 903)</i></b>	<b>3</b>		EGL 232	British Literature II (from 1800 to the Present) (H3913)	3
HIS 140	History of Contemporary Non-Western Civilizations (S2 905N) <sup>1</sup>	3		EGL 234	Introduction to Shakespeare (H3 905)	3
HIS 203	History of South Asia I (S2 920N) <sup>1</sup>	3		EGL 241	Masterpieces of Western Literature I (H3 906)	3
HIS 204	History of South Asia II (S2 920N) <sup>1</sup>	3		EGL 242	Masterpieces of Western Literature II (H3 907)	3
HIS 208	History of Ancient Africa (S2 920N) <sup>1</sup>	3		HUM 120	Western Culture and the Arts: Beginnings through the Middle Ages (HF 902)	3
HIS 211	History of Modern Africa (S2 920N) <sup>1</sup>	3		HUM 121	Western Culture and the Arts: Renaissance through the 20th Century (HF 903)	3
HIS 216	History of Modern China (S2 920N) <sup>1</sup>	3		HUM 122	Contemporary Culture and the Arts (HF 901)	3
HIS 225	History of the Islamic Middle East from the 7th Century to 1918 (S2 920N) <sup>1</sup>	3		HUM 124	African-American Culture and the Arts (HF 906D) <sup>2</sup>	3
HIS 226	History of the Islamic Middle East in Modern Times (S2 920N) <sup>1</sup>	3		HUM 127	Introduction to Philosophy (H4 900)	3
HIS 233	History of Latin America to Independence (S2920N) <sup>1</sup>	3		HUM 140	Introduction to Women's and Gender Studies (H9900) <sup>2</sup>	3
HIS 234	History of Modern Latin America (S2 920N) <sup>1</sup>	3		HUM 141	Introduction to LGBTQ Studies (H9 900) <sup>2</sup>	3
<b>Geography</b>				HUM 142	Women and Creativity (HF 907D) <sup>2</sup>	3
GEG 120	World Regional Geography (S4 900N) <sup>1</sup>	3		HUM 150	Environmental Humanities (HF 900)	3
<b>GEG 122</b>	<b><i>Cultural Geography (S4 900N)<sup>1</sup></i></b>	<b>3</b>		HUM 210	World Mythologies (H9 901) <sup>1</sup>	3
GEG 130	Introduction to Economic Geography (S4 903N) <sup>1</sup>	3		HUM 220	Asian Humanities (HF 904N) <sup>1</sup>	3
<b>Political Science</b>				PHL 105	Logic (H4 906)	3
<b>PSC 101</b>	<b><i>American Government (S5 900)</i></b>	<b>3</b>		PHL 106	Ethics (H4 904)	3
PSC 103	Introduction to Political Science (S5 903)	3		PHL 110	Introduction to the Study of Religion (H5 900) <sup>1</sup>	3
<b>PSC 201</b>	<b><i>Comparative Government (S5 905)<sup>1</sup></i></b>	<b>3</b>		PHL 130	Religious Diversity in America (H5 905) <sup>2</sup>	3
PSC 202	International Relations (S5 904) <sup>1</sup>	3		PHL 160	Social and Political Philosophy (H4 907)	3
<b>Psychology</b>				PHL 204	Environmental Ethics (H4 904) <sup>1</sup>	3
<b>PSY 101</b>	<b><i>Introduction to Psychology (S6 900)</i></b>	<b>3</b>		PHL 205	World Religions (H5 904N) <sup>1</sup>	3
PSY 120	Human Development (S6 902)	3		PHL 215	Asian Philosophy (H4 903N) <sup>1</sup>	3
PSY 122	Human Sexuality (S9 903) <sup>2</sup>	3		PHL 230	Ancient and Medieval Philosophy (H4 901)	3
PSY 202	Social Psychology (S8 900) <sup>2</sup>	3		PHL 231	Modern and Contemporary Philosophy (H4 902)	3
PSY 204	Adolescent Psychology (S6 904)	3		PHL 240	Philosophy of Religion (H4 905)	3
PSY 205	Adult Psychology (S6 905)	3		PHL 245	Foundational Religious Texts (H5 901)	3
PSY 211	Child Psychology (S6 903)	3			Modern language course 202 or higher <sup>1</sup>	
<b>Sociology</b>				<b>Fine Arts</b>		
SOC 101	Introduction to Sociology (S7 900) <sup>2</sup>	3		ART 110	History of Photography (F2 904)	3
SOC 103	Social Problems (S7 901) <sup>3</sup>	3		<b>ART 111</b>	<b><i>Art History: Prehistoric to Renaissance (F2 901)</i></b>	<b>3</b>
SOC 104	Sociology of Marriage and Family (S7 902) <sup>2</sup>	3		<b>ART 112</b>	<b><i>Art History: Renaissance to Modern (F2 902)</i></b>	<b>3</b>
SOC 230	Sociology of Sex and Gender (S7 904D) <sup>2</sup>	3		ART 113	Art History: Modern Art (Twentieth Century) (F2902)	3
SOC 232	Sociology of Race and Ethnicity (S7 903D) <sup>2</sup>	3		ART 114	Art History: Art of the Non-Western World (F2903N) <sup>1</sup>	3
<b>Social Science</b>				HUM 120	Western Culture and the Arts: Beginnings through the Middle Ages (HF 902)	3
SSC 101	The Individual in Modern Society (S9 900)	3		HUM 121	Western Culture and the Arts: Renaissance through the 20th Century (HF 903)	3
SSC 105	Introduction to Ethnic Studies (S7 903D) <sup>2</sup>	3		HUM 122	Contemporary Culture and the Arts (HF 901)	3
SSC 201	Introduction to Global Studies (S9 900) <sup>1</sup>	3		HUM 123	Introduction to Art (F2 900)	3
SSC 205	Latin American Civilization and Culture (S9 901)	3		HUM 124	African-American Culture and the Arts (HF 906D) <sup>2</sup>	3
<b>Note:</b>	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.					
<b>Humanities/Fine Arts (Area E)</b>						
Associate degrees leading to transfer, must include courses in at least two different disciplines.						
<b>Course</b>		<b>Hours</b>				
<b>Humanities</b>						
EGL 113	Introduction to Drama (H3 902)	3		HUM 125	Introduction to Music (F1 900)	3
EGL 115	Introduction to Fiction (H3 901)	3		HUM 131	Introduction to Theater (F1 907)	3
EGL 117	Introduction to Poetry (H3 903)	3		HUM 135	Introduction to U.S. Dance Practices (F1 911D) <sup>2</sup>	3
<b>EGL 129</b>	<b><i>Introduction to Literature (H3 900)</i></b>	<b>3</b>		HUM 142	Women and Creativity (HF 907D) <sup>2</sup>	3
EGL 130	Introduction to Global Literature (H3 908N) <sup>1</sup>	3		HUM 150	Environmental Humanities (HF 900)	3
EGL 131	Multicultural Literature in the U.S. (H3 910D) <sup>2</sup>	3		HUM 160	Introduction to Film (F2 909)	3
EGL 132	LGBTQ+ Literature (H3 911D) <sup>2</sup>	3		HUM 161	Global Cinema (F2 909) <sup>1</sup>	3
EGL 133	Women and Literature (H3 911D) <sup>2</sup>	3		HUM 165	Introduction to World Music (F1 903N) <sup>1</sup>	3
EGL 134	Introduction to African-American Literature (H3910D) <sup>2</sup>	3		HUM 220	Asian Humanities (HF 904N) <sup>1</sup>	3
EGL 135	Introduction to Native American Literature (H3910D) <sup>3</sup>	3		HUM 242	Women, Art and Culture (F2 907D) <sup>2</sup>	3
EGL 136	Introduction to U.S. Latino/a/x Literature (H3 910D)	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
				<b>Note:</b>	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.	

# Concurrent Enrollment

## 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 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
EGL 136 Introduction to U.S. Latino/a/x Literature (H3 910D)	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 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
Introduction to Computer Information Systems	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

# Degree and Certificate Pathways

## 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 8 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 (also available as AP Language and Composition)	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 (or other Social and Behavioral Sciences 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

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

<b>ACC Elective:</b>	
BUS 221 Business Law I	3
MGT 118 Effective Management Communications	3

BUS 107 Business Ethics	
or MGT 118 or Effective Management Communications	3
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>3</sup> (also available as AP Language and Composition)	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

# 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)		
<b>BIO 101</b>	<b>Introduction to Life Science (LS)</b>	
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 8 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: **4**

MAT 114	Applied Mathematics I	
<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**

### Summer Semester

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

# Degree and Certificate Pathways

## 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

**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

**15**

### Summer Semester

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

**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>



## 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 8 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>
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 103	Computer Software and Concepts	4
MAT 114	Applied Mathematics I	4
<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		Hours
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	
or CIS 118	or Linux Operating System	2

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>2</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**

<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.

## Software Developer A.A.S.

**63 Semester Credit Hours**

The following Pathway is recommended for students pursuing an Associate in Applied Science degree in Software Development. For more information or program specific advising contact the program co-coordinators.

**Note:** Refer to page 8 for guidelines on IAI General Education course selection.

### FIRST YEAR

Semester One		Hours
EGL 101	Composition I	3
MAT 140	College Algebra	4
<b>CIS 101</b>	<b>Introduction to Computer Information Systems</b>	<b>3</b>
CIS 131	Web Page Development	4
Select one of 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** **17**

### Semester Two

CIS 143	Introduction to SQL	
or CIS 241	Database Management	3
CIS 171	Advanced Web Page Development	3
MAT/CSC 144	Discrete Mathematics	3
Select one of the following: <b>3</b>		
EGL 102	Composition II	
EGL 111	Introduction to Business and Technical Writing (recommended)	
EGL 211	Writing Digital Content	
EGL 212	Technical Writing Applications (recommended)	
SPE 103	Effective Speech (recommended)	

Select one of the following: **3**

**Note:** Take a course in the same programming language that you took in the first semester

CSC 240	C++ Data Structures	
CSC 241	Java Data Structures	
CSC 242	Python Data Structures	

**Hours** **15**

# Degree and Certificate Pathways

## SECOND YEAR

### Semester One

CIS 136	Project Management Fundamentals Using Agile Principles	3
CIS 204	Introduction to System Analysis and Design	3
CIS 205	Documentation and Technical Writing	3

Select courses to total a minimum of eight credit hours from one of the tracks listed below

**Hours** **17**

### General Programmer Track (8 credit hours)

Select two of 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

### Mobile Programmer Track (8 credit hours)

Select one of the following course sequences:

CIS 257	Apps Programming for Apple Mobile Devices
and CIS 267	Advanced Apps Programming Using Apple Mobile Devices
Or	
CIS 258	Apps Programming for Android Mobile Devices
and CIS 268	Advanced Apps Programming for Android Mobile Devices

### Web Developer Track (8 credit hours)

Select one of the following: 4

CIS 214	Web Site Maintenance and Management
CIS 232	Web Scripting

Select one of the following: 4

CIS 188	Active Server Pages
CIS 248	Web Database Management

### Semester Two

CIS 270	Automated Testing and Deployment	3
CSC 255	Objects and Algorithms	3

Select one of the following: 3

ART 114	Art History: Art of the Non-Western World <sup>1</sup>
EGL 130	Introduction to Global Literature <sup>1</sup>
HUM 161	Global Cinema <sup>1</sup>
HUM 165	Introduction to World Music <sup>1</sup>
HUM 210	World Mythologies <sup>1</sup>
HUM 220	Asian Humanities <sup>1</sup>
PHL 205	World Religions <sup>1</sup>
PHL 215	Asian Philosophy <sup>1</sup>

Select one of the following: 3

SOC 101	Introduction to Sociology <sup>2</sup>
SOC 103	Social Problems <sup>3</sup>
SOC 104	Sociology of Marriage and Family <sup>2</sup>
SOC 230	Sociology of Sex and Gender <sup>2</sup>
SOC 232	Sociology of Race and Ethnicity <sup>2</sup>
SSC 105	Introduction to Ethnic Studies <sup>2</sup>

**Hours** **12**

**Total Hours** **61**

**Internship** (recommended): An internship in a software development degree is vital as it provides hands-on, real-world experience, allowing students to apply their theoretical knowledge, gain practical skills, and build a professional network crucial for launching a successful career in the field. In addition to finding internships on their own, students are welcome to use Oakton's Internship program for assistance in finding an internship. For more information, visit [www.oakton.edu/internships](http://www.oakton.edu/internships) or email [internships@oakton.edu](mailto:internships@oakton.edu).

<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 requirement.

## 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

#### Semester One

	Hours	
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

**Any CNS course (example: CNS 105)** **3**

**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)

**Hours** **12-14**

**Total Hours** **27-29**

## Software Developer Certificate Pathway

The following Pathway is recommended for students pursuing the Software Developer 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
CIS 143     Introduction to SQL	
or CIS 241     Database Management	3
Select one of the following:	3
CSC 155     C++ Computer Science I	
<b><i>CSC 156</i></b> <b><i>Java Computer Science I</i></b>	
CSC 157     Python Computer Science I	

**Hours** **13**

### Semester Two

CIS 136     Project Management Fundamentals Using Agile Principles	3
CIS 171     Advanced Web Page Development	3
CIS 204     Introduction to System Analysis and Design	3
CIS 205     Documentation and Technical Writing	3
Select one of the following:	3

Note: Take a course in the same programming language that you took in the first semester

CSC 240     C++ Data Structures	
CSC 241     Java Data Structures	
CSC 242     Python Data Structures	

**Hours** **15**

### SECOND YEAR

#### Semester One

CSC 255     Objects and Algorithms	3
CIS 270     Automated Testing and Deployment	3

Select courses to total a minimum of 8 credit hour from one of the following tracks 8

**Hours** **14**

**Total Hours** **42**

#### General Programmer Track (8 credit hours)

Select two of 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	

**Total Hours** **8**

#### Mobile Programmer Track (8 credit hours)

Select one of the following course sequences:

CIS 257     Apps Programming for Apple Mobile Devices	
and CIS 267     Advanced Apps Programming Using Apple Mobile Devices	
or CIS 258     Apps Programming for Android Mobile Devices	
and CIS 268     Advanced Apps Programming for Android Mobile Devices	

**Total Hours** **8**

#### Web Developer Track (8 credit hours)

Select one of the following: 4

CIS 214     Web Site Maintenance and Management	
CIS 232     Web Scripting	

Select one of the following: 4

CIS 188     Active Server Pages	
CIS 248     Web Database Management	

**Total Hours** **8**

**Internship** (recommended): An internship in a software development degree is vital as it provides hands-on, real-world experience, allowing students to apply their theoretical knowledge, gain practical skills, and build a professional network crucial for launching a successful career in the field. In addition to finding internships on their own, students are welcome to use Oakton's Internship program for assistance in finding an internship. For more information, visit [www.oakton.edu/internships](http://www.oakton.edu/internships) or email [internships@oakton.edu](mailto:internships@oakton.edu).

**Note:** Pathway is a recommended sequence and selection of courses. Part-time students should contact the department chair to discuss a part-time pathway as well as course prerequisites and recommendations.

## 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

**Total Hours** **14**

## PC Support Specialist Certificate

This certificate prepares the student to provide an 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**

#### Semester Two

CIS 103     Computer Software and Concepts	4
CIS 201     Information Systems for Business	3
ELT 130     Microcomputer Hardware Systems	3
Select one of 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**

*continued*

# Degree and Certificate Pathways

## SECOND YEAR

### Semester One

CIS 116	Introduction to the MS-Windows Operating System	
or CIS 118	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 of the following:		
CAB 104	Skill Building and Document Formatting	3
CAB 184	Business Communication Strategies	3
<b>CNS 105</b>	<b>Networking Essentials</b>	
<hr/>		
<b>Hours</b>		<b>11</b>
<b>Total Hours</b>		<b>34</b>

## 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 8 for guidelines on IAI General Education course selection.

<b>General Education Requirements:</b>	<b>Hours</b>
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	
<hr/>	
<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 1	3
CNS 150	Windows Client Desktop 2	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:		
Nine credit hours from any CNS courses not taken previously		
CIS 118 Linux Operating System (or higher)		
or any CSC or ELT courses		
Select one of the following nine credit hour tracks:		
<hr/>		
<b>Total Hours</b>		<b>42</b>

### 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
<hr/>		
<b>Total Hours</b>		<b>9</b>

### Microsoft Track

CNS 111	Windows Server 1	3
CNS 114	Windows Server 2	3
CNS 116	Windows Server 3	3
<hr/>		
<b>Total Hours</b>		<b>9</b>

## Network Security Administrator Certificate

<b>Courses for a Certificate</b>	<b>Hours</b>	
<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 I	3
<hr/>		
<b>Total Hours</b>	<b>25</b>	

## Windows Server Administration Certificate

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

## Windows Support Technician Certificate

<b>Courses for a Certificate</b>	<b>Hours</b>	
<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 1	3
CNS 121	IT Certification Preparation	1
CNS 150	Windows Client Desktop 2	3
<b>CNS 170</b>	<b>Principles of Information Security</b>	<b>3</b>
or CNS 176	or Network Security	
<hr/>		
<b>Total Hours</b>	<b>16</b>	

## 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 8 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> <i>Introduction to Computer Information Systems</i>	<b>3</b>
or CIS 103 Computer Software and Concepts	
CIS/CNS 228 Linux I	3
<b>CNS 105</b> <i>Networking Essentials</i>	<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> <i>Child Growth and Development</i>	<b>3</b>
One course from the following:	<b>3</b>
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 8 for guidelines on IAI General Education course selection.

#### FIRST YEAR

Semester One	Hours
<b>ECE 102</b> <i>Child Growth and Development</i>	<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> <i>Composition I (also available as AP Language and Composition)</i>	<b>3</b>
<b>MAT 125</b> <i>General Education Mathematics</i>	
or <b>MAT 131</b> <i>or Elementary Statistics</i>	<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> <i>Composition II</i>	<b>3</b>
or <b>SPE 103</b> <i>or Effective Speech</i>	
<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:	<b>3</b>
<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>

## 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> <span style="float: right;"><b>3</b></span>
ECE 107	Observation and Assessment of the Young Child <span style="float: right;">3</span>
ECE 108	Nutrition, Health and Safety for the Young Child <span style="float: right;">3</span>
ECE 270	Child, Family, and Community Relations <span style="float: right;">3</span>
ECE 273	Introduction to Early Childhood Administration <span style="float: right;">3</span>

**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 8 for guidelines on IAI General Education course selection.

### FIRST YEAR

Semester One	Hours
ELT 101	Introduction to Electronics <span style="float: right;">5</span>
ELT 130	Microcomputer Hardware Systems <span style="float: right;">3</span>
<b>CNS 105</b>	<b>Networking Essentials</b> <span style="float: right;"><b>3</b></span>
MAT 114	Applied Mathematics I <span style="float: right;">4</span>

**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.

# Degree and Certificate Pathways

## 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
<b>Hours</b>		<b>15</b>

### 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>	
<b>Hours</b>		<b>14-15</b>

### SECOND YEAR

Semester One		Hours
<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	3
<b>or ELT 224</b>	<b>or Industrial Circuit Applications</b>	
<b>Hours</b>		<b>13</b>
<b>Total Hours</b>		<b>42-43</b>

## 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
<b>Hours</b>		<b>15</b>

### 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>
<b>Hours</b>		<b>14</b>

### SECOND YEAR

Semester One		Hours
<b>ELT 221</b>	<b>Digital Circuit Fundamentals</b>	<b>3</b>
ELT 231	Fundamentals of Microprocessors	3
ELT 150	A+ Certification Preparation	2-3
<b>or ELT 154</b>	<b>or Fundamentals of Solar Energy Systems</b>	
<b>Hours</b>		<b>8-9</b>
<b>Total Hours</b>		<b>37-38</b>

## 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 8 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>
<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>ART 115</b>	<b>Beginning Photography</b>	<b>3</b>
<b>or ART 117</b>	<b>or Digital Photography</b>	
<b>Hours</b>		<b>15</b>

### 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>
<b>MAT 125</b>	<b>General Education Mathematics</b>	<b>4</b>
	(or other Mathematics or Science course)	
<b>Hours</b>		<b>16</b>

### SECOND YEAR

Semester One		Hours
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		

<b>Hours</b>		<b>18-19</b>
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# 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

<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.

## 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 8 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

# Degree and Certificate Pathways

## Cardiac Sonography A.A.S. Pathway

The following Pathway is recommended for students pursuing an Associate in Applied Science degree in Cardiac Sonography. For more information on recommended courses or program specific advising, contact the Health Career Specialist at 847.635.1844, or the Division of Health Careers at 847.635.1684. General Education courses should be selected from the list of **IAI General Education Courses**.

**Note:** Refer to page 8 for guidelines on IAI General Education course selection.

Program Prerequisites	Hours
MAT 140 College Algebra	4
PHY 101 Applied Physics	4
<b>Total Hours</b>	<b>8</b>

### FIRST YEAR

Semester One (Summer)	Hours
<b>BIO 114</b> <b>Basic Human Anatomy and Physiology</b>	<b>3</b>
CDS 100 Medical Terminology for the Cardiac Sonographer	1

Hours	Hours
	<b>4</b>

### Semester Two (Fall)

CDS 101 Introduction to Sonography and Patient Care	2
CDS 102 Basic EKG for the Cardiac Sonographer	1
CDS 103 Anatomy and Physiology for the Cardiac Sonographer	3
CDS 104 Doppler Physics and Hemodynamics for the Cardiac Sonographer	3
CDS 107 Cardiac Sonography Lab Practicum I	3

Hours	Hours
	<b>12</b>

### Semester Three (Spring)

<b>EGL 101</b> <b>Composition I</b>	<b>3</b>
CDS 105 Ultrasound Physics and Instrumentation I	3
CDS 106 Cardiac Sonography I	3
CDS 108 Cardiac Sonography Lab Practicum II	6

Hours	Hours
	<b>15</b>

### SECOND YEAR

#### Semester One (Summer)

CDS 201 Ultrasound Physics and Instrumentation II	3
SOC 103 Social Problems <sup>1</sup>	3

Hours	Hours
	<b>6</b>

#### Semester Two (Fall)

CDS 202 Cardiac Sonography Lab Practicum III	3
CDS 204 Cardiac Sonography II	3
CDS 206 Ultrasound Physics and Instrumentation Review	3
CDS 208 Cardiac Sonography Clinical Externship I	6

Hours	Hours
	<b>15</b>

#### Semester Three (Spring)

CDS 205 Registry Review and Advancing Trends in Cardiac Sonography	3
CDS 207 Pharmacology for the Cardiac Sonographer	1
CDS 209 Cardiac Sonography Clinical Externship II	8

Hours	Hours
	<b>12</b>

Total Hours	Hours
	<b>64</b>

## Radiography A.A.S. Pathway

The following Pathway is recommended for students pursuing an Associate in Applied Science degree in Radiography. For more information on recommended courses or program specific advising, contact the Health Career Specialist at 847.635.1844, or the Division of Health Careers at 847.635.1684. General Education courses should be selected from the list of **IAI General Education Courses**.

**Note:** Refer to page 8 for guidelines on IAI General Education course selection.

Program Prerequisites	Hours
BIO 231 Human Anatomy and Physiology I	4
BIO 232 Human Anatomy and Physiology II	4
<b>HIT 104</b> <b>Medical Terminology</b>	<b>3</b>
MAT 102 Mathematics for Health Careers	2
<b>Total Hours</b>	<b>13</b>

### FIRST YEAR

Semester One (Summer)	Hours
XRY 100 Introduction to Radiography and Patient Care	3
XRY 102 Radiography Practicum I	1

Hours	Hours
	<b>4</b>

### Semester Two (Fall)

<b>EGL 101</b> <b>Composition I</b>	<b>3</b>
XRY 101 Radiographic Procedures I	5
XRY 103 Radiographic Imaging I	3
XRY 105 Radiography Practicum II	3

Hours	Hours
	<b>14</b>

### Semester Three (Spring)

SPE 115 Interpersonal Communication Across Cultures <sup>1</sup>	3
XRY 106 Radiographic Procedures II	5
XRY 108 Radiographic Imaging II	3
XRY 110 Radiography Practicum III	3

Hours	Hours
	<b>14</b>

### SECOND YEAR

#### Semester One (Summer)

<b>PSY 101</b> <b>Introduction to Psychology</b>	<b>3</b>
XRY 201 Radiography Practicum IV	3

Hours	Hours
	<b>6</b>

#### Semester Two (Fall)

XRY 202 Radiographic Imaging III	2
XRY 204 Radiographic Image Analysis	2
XRY 206 Radiation Biology and Safety	3
XRY 208 Radiography Practicum V	3

Hours	Hours
	<b>10</b>

#### Semester Three (Spring)

XRY 203 Advanced Imaging Procedures	2
XRY 205 Radiographic Pathology	2
XRY 207 ARRT Review	2
XRY 209 Radiography Practicum VI	3

Hours	Hours
	<b>9</b>

Total Hours	Hours
	<b>57</b>

<sup>1</sup> Course fulfills the Global Studies and U.S. Diversity Studies requirements. At least one Global Studies and one U.S. Diversity Studies course are required for degree completion.

## Surgical Technology A.A.S. Pathway

The following Pathway is recommended for students pursuing an Associate in Applied Science degree in Surgical Technology. For more information on recommended courses or program specific advising, contact the Health Career Specialist at 847.635.1844, or the Division of Health Careers at 847.635.1684. General Education courses should be selected from the list of IAI General Education Courses.

**Note:** Refer to page 8 for guidelines on IAI General Education course selection.

Program Prerequisites		Hours
<b>BIO 121</b>	<b>General College Biology I</b>	<b>4</b>
<b>EGL 101</b>	<b>Composition I</b>	<b>3</b>
<b>HIT 104</b>	<b>Medical Terminology</b>	<b>3</b>
MAT 102	Mathematics for Health Careers	2

**Total Hours** **12**

### FIRST YEAR

Semester One (Summer)		Hours
BIO 251	Microbiology	4

**Hours** **4**

### Semester Two (Fall)

BIO 231	Human Anatomy and Physiology I	4
SUR 101	Introduction to Surgical Technology	10

**Hours** **14**

### Semester Three (Spring)

BIO 232	Human Anatomy and Physiology II	4
SUR 102	Surgical Procedures I	10

**Hours** **14**

### SECOND YEAR

#### Semester One (Summer)

SUR 201	Surgical Procedures II	5
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**Hours** **5**

#### Semester Two (Fall)

SOC 103	Social Problems <sup>1</sup>	3
SUR 202	Surgical Technology Review I	3
SUR 204	Surgical Technology Clinical Externship I	6.5

**Hours** **12.5**

#### Semester Three (Spring)

SUR 203	Surgical Technology Review II	3
SUR 205	Surgical Technology Clinical Externship II	6.5

**Hours** **9.5**

**Total Hours** **59**

<sup>1</sup> Course fulfills the Global Studies and U.S. Diversity Studies requirements. At least one Global Studies and one U.S. Diversity Studies course are required for degree completion.

## 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 8 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**

### 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>	<b>4</b>
EGL 111	Introduction to Business and Technical Writing	
EGL 212	Technical Writing Applications	
<b>SPE 103</b>	<b>Effective Speech (recommended)</b>	<b>3</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**

# Degree and Certificate Pathways

## 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
<b>HIT 104</b>	<b>Medical Terminology</b>	<b>3</b>
MLT 105	Introduction to Health Care Issues	1
MLT 107	Phlebotomy	4
<b>Hours</b>		<b>13</b>
Semester Two		Hours
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
<b>Hours</b>		<b>12</b>
Semester Three		Hours
MAP 260	Medical Assistant Practicum	3
<b>Hours</b>		<b>3</b>
<b>Total Hours</b>		<b>28</b>

## 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
<b>Hours</b>		<b>9</b>
Summer Semester		Hours
HIT 170	CPT Coding	2
<b>Hours</b>		<b>2</b>
SECOND YEAR		Hours
Fall Semester		Hours
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
<b>Hours</b>		<b>5</b>
<b>Total Hours</b>		<b>16</b>

## 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>

## Pharmacy Technician Certificate

The Pharmacy Technician program is designed to teach fundamentals of being a pharmacy technician for those interested in becoming pharmacy technicians, pre-pharmacy students, or those interested in completing the Pharmacy Technician Certification Board Examination. Classes are taught by a Registered Pharmacist or Doctor of Pharmacy. The course covers various pharmacy practice settings, drug classes, basic physiology, drug interactions, pharmacy calculations, and daily pharmacy operations. Employment opportunities are available in career settings including retail/independent community, hospital, mail order, managed care, pharmaceutical industry, long term/home health care and nuclear pharmacy.

This certificate can be completed in one semester.

Courses for a Certificate		Hours
PHT 125	Pharmacy Technician	9
PHT 251	Clinical Practicum	2
<b>Total Hours</b>		<b>11</b>

## 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

Semester One (Fall or Spring)		Hours
<b>HIT 104</b>	<b>Medical Terminology</b>	<b>3</b>
MLT 105	Introduction to Health Care Issues	1
MLT 107	Phlebotomy	4
<b>Hours</b>		<b>8</b>
Semester Two (Spring or Summer)		Hours
MLT 204	Phlebotomy Practicum	2
<b>Hours</b>		<b>2</b>
<b>Total Hours</b>		<b>10</b>

## 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 8 for guidelines on IAI General Education course selection.

### FIRST YEAR

Semester One	Hours
BIO 231 Human Anatomy and Physiology I	4
<b>HIT 104 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**

### Semester Two

BIO 232 Human Anatomy and Physiology II	4
<b>EGL 101 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 Introduction to Psychology</b>	<b>3</b>
PTA 162 Clinical Practicum II	2

**Hours** **5**

### SECOND YEAR

#### Semester One

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>

**EGL 102 Composition II**

EGL 111 Introduction to Business and Technical Writing

EGL 212 Technical Writing Applications

**SPE 103 Effective Speech**

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**

#### Semester Two

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**

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

## 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*.

**Note:** Refer to page 8 for guidelines on IAI General Education course selection.

### FIRST YEAR

#### Semester One

EGL 101	Composition I (also available as AP Language and Composition)	Hours
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 Effective Speech</b>		<b>3</b>

**Hours** **15**

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

**LAE 135 Forensics I**

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.

# Degree and Certificate Pathways

## 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>
Semester Two		Hours
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.

## 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 8 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		Hours
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		Hours
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> :		<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	
<b>Hours</b>		<b>12-14</b>
Spring Semester		Hours
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		<b>3</b>
Select one Humanities/Fine Arts course that also satisfies Global Studies <sup>2</sup> or U.S. Diversity Studies <sup>3</sup> requirement		<b>3</b>
<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.

# Degree and Certificate Pathways

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 8 for guidelines on IAI General Education course selection.

### FIRST YEAR

Fall Semester		Hours
<b>EGL 101</b>	<b>Composition I</b> (also available as <i>AP Language and Composition</i> )	<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

Select one Humanities/Fine Arts course that also satisfies Global Studies<sup>1</sup> or U.S. Diversity Studies<sup>2</sup> requirement

<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

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>
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## 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>

# Degree and Certificate Pathways

## 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

**Hours** 12

### Fall Semester

MFG 165	Mastercam (CAM)	4
MFG 210	Industrial Robotics and Automation	4
MFG 240	Programmable Logic Controllers (PLC)	4

**Hours** 12

### SECOND YEAR

#### Spring Semester

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)	

**Hours** 8

**Total Hours** 32

## 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	

**Total Hours** 11

## 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 8 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>
<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

**Hours** 16

### 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

**Hours** 15

### 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>

**Hours** 18

#### 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>3</sup>	
SSC 105	Introduction to Ethnic Studies <sup>2</sup>	

**Hours** 13

**Total Hours** 62

<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><i>CIS 101</i></b>	<b><i>Introduction to Computer Information Systems</i></b>	<b>3</b>
Select one elective from CAD, FME, GIS, MEC or MFG		4

**Hours** **16**

### 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

**Hours** **14**

**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	

**Hours** **3-4**

### 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	

**Hours** **8**

### SECOND YEAR

#### Semester One

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

**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
<b>Total Hours</b>		<b>11</b>

## 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>

# Degree and Certificate Pathways

## 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>

Hours 4

### Semester Two

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

### SECOND YEAR

#### Semester One

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

**Total Hours 12**

## 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

### Design

<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

### Graphic Design

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

### Computer Applications for Business

CAB 150	Visio Fundamentals
CAB 165	Adobe InDesign

### Computer-Aided Design

<b>CAD 116</b>	<b>Basic AutoCAD</b>
<b>CAD 117</b>	<b>Intermediate AutoCAD</b>
CAD 118	Advanced AutoCAD

### Computer Information Systems

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

### Marketing

MKT 131	Principles of Marketing
MKT 134	Fundraising and Grant Writing

**Total Hours 30**

## Hear from an Early College Student

My counselor told me I could enroll in Oakton's Basic Nurse Assistant Training (BNAT) while I was still in high school and really guided me into the path of nursing. I'm so grateful to my counselor because the BNAT program gave me a glimpse into the nursing world...After going through the Nursing program at Oakton, which I hope to get into Fall 2024, I really want to work in labor and delivery...After a couple of years of that, I want to provide care to the premature babies. I have a steady hand and I'm gentle, so I think I'll be good at working with those babies.

–Elizabeth Perez

Oakton student and Niles West High School graduate



Read more about Elizabeth's  
Early College experience  
*Scan the QR Code*

## Hear from a High School Partner

We have seen firsthand the positive impact of our students engaging in early college coursework with Oakton College. Whether it be certificate-granting programs like the Certified Nurses Assistant Program or simply earning core course credits through our dual credit partnership, our students have been able to cut time to earning a degree, save money, and start their careers on a sound foundation.

–Shawn Messmer

Assistant Superintendent of Curriculum and Innovation for Maine Township High Schools

# 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 Evanston Township, Maine East, Maine West, Niles West, and Niles North High Schools. We graduated 83 students from the program in 2024. 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 2024-25, 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.

See page 26 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 2024-25, 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
Select nineteen credit hours from the following:		
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 2024-25, New Trier students can complete this 15-credit certificate while still in high school through dual credit.

See page 31 for more details.

Courses for a Certificate		Hours
CAD 107	Introduction to 3D Printing	4
CAD 116	Basic AutoCAD	3
CAD 117	Intermediate AutoCAD	4
CAD 210	Industrial Design Techniques	4
<b>Total Hours</b>		<b>15</b>

## Course Planning Worksheet

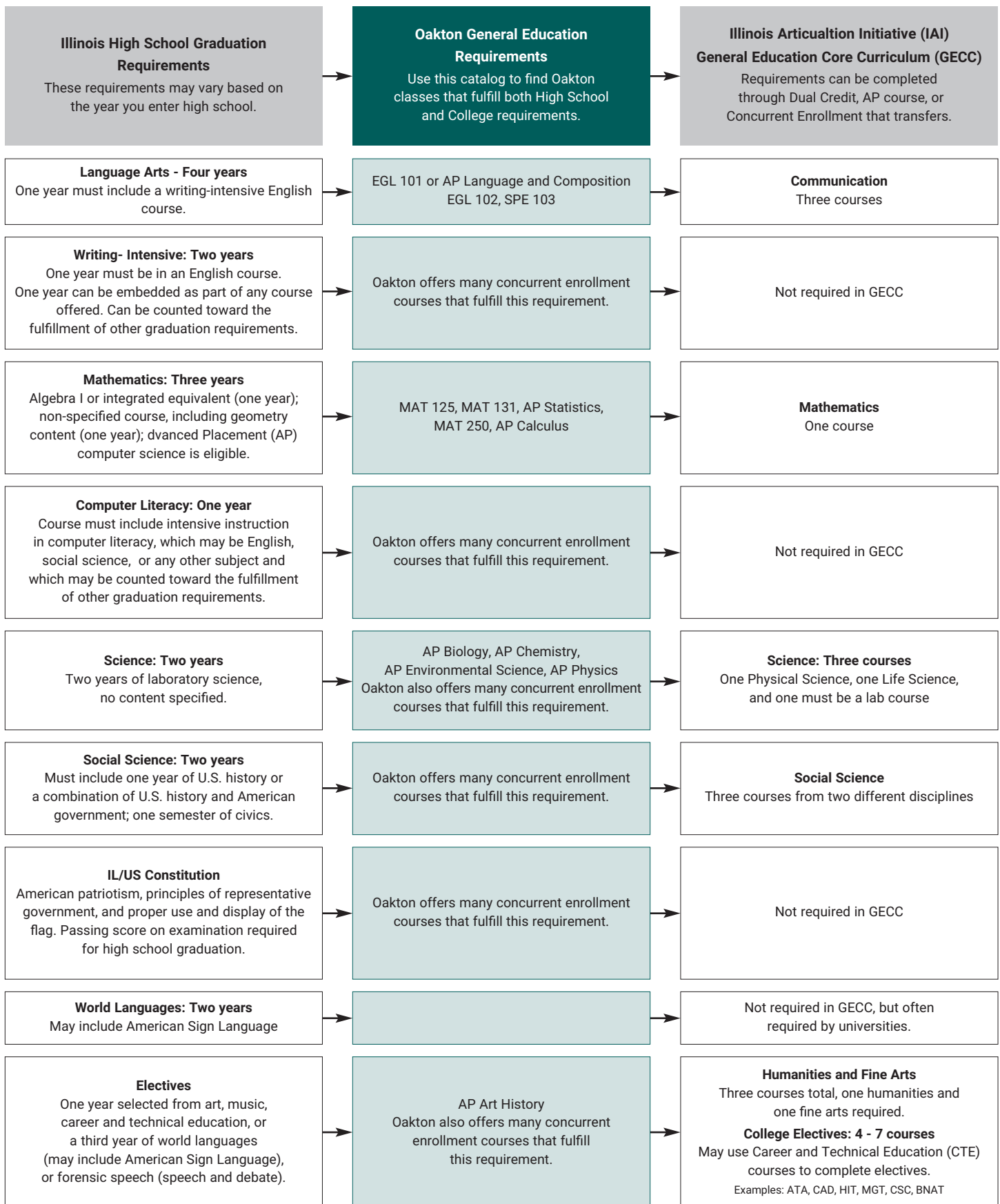
	FALL	SPRING	SUMMER
YEAR ONE			
Credits			
Other			

	FALL	SPRING	SUMMER
YEAR TWO			
Credits			
Other			

	FALL	SPRING	SUMMER
YEAR THREE			
Credits			
Other			

	FALL	SPRING	SUMMER
YEAR FOUR			
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.





1600 East Golf Road, Des Plaines, Illinois 60016  
7701 North Lincoln Avenue, Skokie, Illinois 60077  
earlycollege@oakton.edu, 847.635.1661  
[oakton.edu/earlycollege](http://oakton.edu/earlycollege)