You have big ideas, big goals, big dreams. Start early.

Early College

Dual Credit

Advanced Placement (AP) Credit

Concurrent Enrollment

Oakton Community College

Early College

Get a head start on college while you're still in high school by pursuing Early College at Oakton.

Gain college credit—and experience. Get comfortable with college coursework while gaining credit toward your college degree. Early College courses count toward your degree at Oakton and should transfer to most four-year institutions.

Save money. Oakton's low tuition rates mean you'll be gaining college credit for less, which lowers the overall price tag of your education.

Explore. Wouldn't it be great to walk onto campus with a solid idea of what you want to study? Use your time in Early College to explore your interests and sharpen your focus.

Succeed. Students who pursue college credit while in high school are more likely to earn a college degree. There's nothing like a head start.

Oakton offers three ways for academically qualified high school students to earn college credit. You can combine the experiences to fit your goals.

The three opportunities are:

This publication 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. You can even earn a college certificate that qualifies you for a job while you're still in high school!

Dual Credit

Oakton's dual credit program allows you to earn college credit and high school credit at the same time. You'll take the course at your high school and it will be taught by a qualified high school faculty member. The course is approved by Oakton and meets our college-level learning outcomes. The dual credit program is overseen by the Illinois Community College Board, ensuring that you're getting a quality college education in your high school course. Many of our dual credit courses will give you a head start toward a certificate, preparing you for a career or further technical education by the time you graduate high school.

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. The latest offerings can be found at *www.oakton.edu/earlycollege*.

EVANSTON TOWNSHIP HIGH SCHOOL

ART 115	Beginning Photography
GRD 101	Introduction to Visual Communication
CAD 105	Industrial Design Engineering
CAD 210	Industrial Design Engineering Techniques
CAD 220	CAD Introduction to Building Systems - Revit
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

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

GLENBROOK SOUTH HIGH SCHOOL

CAD 105	Industrial Design Engineering
CAD 116	Basic AutoCAD
CAD 117	Intermediate AutoCAD
CAD 210	Industrial Design Engineering 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

MAT 252	Calculus III
MAT 260	Introduction to Linear Algebra

MAINE EAST

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 Engineering Techniques
CAD 220	CAD Introduction to Building Systems - 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

MAINE SOUTH

ACC 100	Accounting Procedures
ART 115	Beginning Photography
BIO 114	Basic Human Anatomy and Physiology
CAD 105	Industrial Design Engineering
CAD 116	Basic AutoCAD
CAD 210	Industrial Design Engineering Techniques
CAD 220	CAD Introduction to Building Systems - 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 102	Industrial Drafting and Design
MGT 160	Small Business Management

Dual Credit

MAINE WEST

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	CAD Introduction to Building Systems - 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
MFG 102	Industrial Drafting and Design
MFG 111	Introduction to Computer Integrated Manufacturing (CIM)
MGT 160	Small Business Management

NEW TRIER

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 Engineering Techniques
CAD 220	CAD Introduction to Building Systems - 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

BNA 100	Basic Nurse Assistant Training
BNA 105	Basic Nurse Assistant Job Training
CAD 210	Industrial Design Engineering Techniques
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

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

Graduate from High School with a College Certificate

You can complete these programs entirely through Early College Dual Credit.

Basic Nursing Assistant Training Certificate

Oakton's eight-credit certificate in Basic Nursing Assistant Training (BNAT) can be completed entirely through dual credit by students attending Maine East, Maine West, Niles West, or Niles North High Schools. 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 60 high school students earned their BNAT certificate while still in high school.

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. **New Trier students can complete this 13-credit certificate while still in high school through dual credit.**

Production Technician Certificate

Students at Niles West and Niles North can complete this nine-credit certificate for entry-level manufacturing production workers. It's a great opportunity to gain a technical foundation and familiarity with the manufacturing industry. You'll graduate high school with college credit and professional credentials to enter the field with confidence or pursue further education.

Welding Certificate

Welding is a skill used by various trades and welding applications that range from sculptures by home hobbyists to heavy metal fabrication of bridges, ships, and many other projects. Our 10-credit Welding Certificate follows the standards of American Welding Society (AWS) and will prepare you for jobs in various industries. **Students at Niles West and Niles North can complete this certificate completely through dual credit.**

Dual Credit

Oakton's Early College Career Programs and Certificates

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.

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.

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.

63 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 25 for guidelines on IAI General Education course selection.

FIRST YEAR

Fall Semester		**Hours**
ACC 153	Principles of Financial Accounting	4
EGL 101	**Composition I *(also available as AP)***	**3**
BUS 101	Introduction to Business	3
Select one from the following:		**4**
MAT 111	Business and Consumer Mathematics	
MAT 140	**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[3]	
or ACC 250	or Accounting Systems and Procedures	3
Select one from the following:		**3**
EGL 102	**Composition II**	
EGL 111	Introduction to Business and Technical Writing	
EGL 212	Technical Writing Applications	
SPE 103	Effective Speech	
Hours		**14**
Summer Semester		
ACC 183	QuickBooks Certified User Preparation	3
ECO 201	***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
ECO 202	***Principles of Microeconomics (or other Social and Behavioral Sciences course)***	**3**

Note: You may select a course that also satisfies Global Studies[1] and/or U.S. Diversity Studies[2] requirements

Choose one Humanities/Fine Arts course		3

Note: You may select a course that also satisfies Global Studies[1] and/or U.S. Diversity Studies[2] requirements

Hours		**15**
Spring Semester		
ACC Elective:		
ACC 100	**Accounting Procedures**	**3**
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[1] and/or U.S. Diversity Studies[2] requirement

Hours	**15**
Total Hours	**63**

Accounting Associate Certificate

42 Semester Credit Hours

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

FIRST YEAR

Fall Semester		**Hours**
ACC 153	Principles of Financial Accounting	4
BUS 101	Introduction to Business	3
BUS 221	Business Law I	3
MGT 118	Effective Management Communications	3
Hours		**13**
Spring Semester		
ACC 180	Accounting with Microsoft Excel	3
ACC 183	QuickBooks Certified User Preparation	3
ACC 188	Cloud Accounting[4]	3
or ACC 250	or Accounting Systems and Procedures	
ACC 244	Income Tax Accounting	3
Hours		**12**
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:		
ACC 100	**Accounting Procedures**	**3**
Hours		**13**
Total Hours		**42**

1 *At least one Global Studies course is required for degree completion.*
2 *At least one U.S. Diversity course is required for degree completion.*
3 *Students enrolled prior to Fall 2018 may complete ACC 250.*
4 *ACC 250 may have been completed prior to Fall 2018.*

Dual Credit

Automotive Technology A.A.S.

67 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 trade of automotive.

Note: Refer to page 25 for guidelines on IAI General Education course selection.

FIRST YEAR

Fall Semester		Hours
ATA 102	**Introduction to Automotive Technology**	**4**
ATA 111	Automotive Electrical Systems I	4
EGL 101	**Composition I *(also available as AP)***	**3**
Select one from the following:		**4**
MAT 114	Applied Mathematics I	
MAT 125	**General Education Mathematics**	
MAT 131	***Elementary Statistics***	
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[1]	
SOC 103	Social Problems[2]	
Hours		**15**
Summer Semester		
ATA 207	Automotive Heating and Air Conditioning	4
Hours		**4**

SECOND YEAR

Fall Semester		
ATA 204	Basic Automotive Engines	4
ATA 206	Clutches, Transmissions, and Differentials	4
ATA 208	Automatic Transmissions	4
Select one Humanities/Fine Arts course that also satisfies Global Studies requirements		3
Hours		**15**
Spring Semester		
ATA 114	Steering, Balancing, and Alignment	4
ATA 205	Advanced Automotive Engines	4
SPE 103	Effective Speech	3
ATA 210	Advanced Engine Performance Analysis	4
		15
Summer Semester		
ATA 211	Automotive Electrical Systems II	4
Hours		**4**
Total Hours		**68**

1 *Course fulfills the U.S. Diversity Studies Requirement. At least one U.S. Diversity Studies course is required for degree completion.*

2 *Course fulfills both, the Global Studies and U.S. Diversity Studies requirements.*

Automotive Technology Certificate

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

FIRST YEAR

Fall Semester		Hours
ATA 102	**Introduction to Automotive Technology**	**4**
ATA 111	Automotive Electrical Systems I	4
ATA 206	Clutches, Transmissions, and Differentials	4
Hours		**12**
Spring Semester		
ATA 113	Brake Systems	4
ATA 114	Steering, Balancing, and Alignment	4
Hours		**8**
Summer Semester		
ATA 207	Automotive Heating and Air Conditioning	4
Hours		**4**

SECOND YEAR

Fall Semester		
ATA 211	Automotive Electrical Systems II	4
Hours		**4**
Total Hours		**28**

Automotive Technology Powertrain Certificate

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

FIRST YEAR

Fall Semester		Hours
ATA 102	**Introduction to Automotive Technology**	**4**
ATA 111	Automotive Electrical Systems I	4
ATA 204	Basic Automotive Engines	4
Hours		**12**
Spring Semester		
ATA 110	Engine Performance and Fuel Systems	4
ATA 205	Advanced Automotive Engines	4
ATA 210	Advanced Engine Performance Analysis	4
Hours		**12**

SECOND YEAR

Fall Semester		
ATA 206	Clutches, Transmissions, and Differentials	4
ATA 208	Automatic Transmissions	4
Hours		**8**
Total Hours		**32**

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 25 for guidelines on IAI General Education course selection.

FIRST YEAR

Semester One		Hours
EGL 101	**Composition I *(also available as AP)***	**3**
MAT 111	Business and Consumer Mathematics	4
CIS 101	***Introduction to Computer Information Systems***	**3**
CNS 105	**Networking Essentials**	**3**
CAB 140	Database Application Using Access	3
Hours		**16**
Semester Two		
CIS 103	Computer Software and Concepts	4
MAT 114	Applied Mathematics I	
or MAT 140	**or College Algebra**	**4**
Select one from the following:		**3**
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 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	
CSC 156	***Java Computer Science I***	
CSC 157	Python Computer Science I	
CIS 180	Introduction to Visual Basic .NET Programming	
Hours		**17-19**

SECOND YEAR

Semester One		
BUS 101	Introduction to Business	3
CAB 135	Electronic Spreadsheeting 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[1]	
SOC 103	Social Problems[2]	
SOC 104	Sociology of Marriage and Family[1]	
SOC 230	Sociology of Sex and Gender[1]	
SOC 232	Sociology of Race and Ethnicity[1]	
SSC 105	Introduction to Ethnic Studies[1]	
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[3]	
EGL 130	Introduction to Global Literature[3]	
HUM 161	Global Cinema[3]	
HUM 165	Introduction to World Music[3]	
HUM 210	World Mythologies[3]	
HUM 220	Asian Humanities[3]	
PHL 205	World Religions[3]	
PHL 215	Asian Philosophy	
Hours		**15**
Total Hours		**64-66**

1 *Course fulfills the U.S. Diversity Requirement. At least one U.S. Diversity course is required for degree completion.*
2 *Course fulfills both the Global Studies and U.S. Diversity Requirement.*
3 *Course fulfills the Global Studies Requirement. At least one Global Studies course is required for degree completion.*

Computer Programmer A.A.S.

63 Semester Credit Hours

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

Note: Refer to page 25 for guidelines on IAI General Education course selection.

FIRST YEAR

Semester One		Hours
EGL 101	**Composition I *(also available as AP)***	**3**
MAT 111	Business and Consumer Mathematics	4
CIS 101	***Introduction to Computer Information Systems***	**3**
CNS 105	**Networking Essentials**	**3**
CAB 140	Database Application Using Access	3
Hours		**16**
Semester Two		
CIS 131	Web Page Development	4
CIS 143	Introduction to SQL	3
MAT 114	Applied Mathematics I	
or MAT 140	**or College Algebra**	**4**
Select one from the following:		**3**
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 from the following:		**3**
CSC 155	C++ Computer Science I	
CSC 156	***Java Computer Science I***	
CSC 157	Python Computer Science I	
Hours		**17**

SECOND YEAR

Semester One		
CIS 201	Information Systems for Business	3
Select one from the following:		3
SOC 101	Introduction to Sociology[1]	
SOC 103	Social Problems[2]	
SOC 104	Sociology of Marriage and Family[1]	
SOC 230	Sociology of Sex and Gender[1]	
SOC 232	Sociology of Race and Ethnicity[1]	
SSC 105	Introduction to Ethnic Studies[1]	
Select courses from one of the following tracks:		10-12

General Programmer Track (10-12 credit hours)

Select one from the following:

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

Select two courses from the following:

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

or other course approved by the program coordinator

continued

Mobil Programmer Track (11-12 credit hours)

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

Select one from the following:
- CIS 180 Introduction to Visual Basic .NET Programming
- CIS 211 Java Programming
- CIS 227 C# Programming

or other course approved by the program coordinator

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

or other course approved by the program coordinator

Web Developer Track (12 credit hours)
- CIS 171 Advanced Web Page Development
- CIS 188 Active Server Pages
- CIS 248 Web Database Management

Hours **16-18**

Semester Two

CIS 204	Introduction to System Analysis and Design	3
CIS 241	Database Management	3
Select one from the following:		3
CIS 203	Managing Information Systems	
CIS 205	Documentation and Technical Writing	
CIS 251	Computer Information Systems Internship	
Select one from the following:		3
ART 114	Art History: Art of the Non-Western World[3]	
EGL 130	Introduction to Global Literature[3]	
HUM 161	Global Cinema[3]	
HUM 165	Introduction to World Music[3]	
HUM 210	World Mythologies[3]	
HUM 220	Asian Humanities[3]	
PHL 205	World Religions[3]	
PHL 215	Asian Philosophy[3]	
Select one course from one of the following tracks:		3-4

General Programmer Track (4 credit hours)

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

Mobile Programmer Track (4 credit hours)

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

Web Developer Track (3-4 credit hours)

Select one from the following:
- CIS 214 Web Site Maintenance and Management
- CIS 232 Web Scripting

or other course approved by the program coordinator

Hours **15-16**

Total Hours **64-67**

1 *Course fulfills the U.S. Diversity Requirement. At least one U.S. Diversity course is required for degree completion.*

2 *Course fulfills both the Global Studies and U.S. Diversity Requirement.*

3 *Course fulfills the Global Studies Requirement. At least one Global Studies course is required for degree completion.*

Computers Programmer Certificate

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

FIRST YEAR

Semester One		**Hours**
CIS 101	***Introduction to Computer Information Systems***	**3**
CIS 131	Web Page Development	4
CNS 105	**Networking Essentials**	**3**
CAB 140	Database Application Using Access	3
Select one course from the following:		**3**
CSC 155	C++ Computer Science I	
CSC 156	***Java Computer Science I***	
CSC 157	Python Computer Science I	
Hours		**16**

Semester Two

CIS 201	Information Systems for Business	3
CIS 204	Introduction to System Analysis and Design	3
Select one from the following:		3
CIS 143	Introduction to SQL	
CIS 203	Managing Information Systems	
CIS 205	Documentation and Technical Writing	
CIS 241	Database Management	
CIS 251	Computer Information Systems Internship	
Select one course from one of the following tracks:		4

General Programmer Track (4 credit hours)

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

Mobile Programmer Track (4 credit hours)

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

Web Developer Track (4 credit hours)
- CIS 171 Advanced Web Page Development

Hours **13**

SECOND YEAR

Semester One

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

General Programmer Track (10-12 credit hours)

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

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

or other course approved by the program coordinator

Mobile Programmer Track (11-12 credit hours)

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

Select one from the following:

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

or other course approved by the program coordinator

Select one from the following:

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

or other course approved by the program coordinator

Web Developer Track (12 credit hours)

CIS 188	Active Server Pages
CIS 248	Web Database Management

Select one from the following:

CIS 214	Web Site Maintenance and Management
CIS 232	Web Scripting

or other course approved by the program coordinator

Hours	**10-12**
Total Hours	**39-41**

Internet and Computer Core (IC3) Certificate

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

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

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	
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**

PC Support Specialist Certificate

The following pathway is recommended for students pursuing the 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		Hours
CIS 101	**Introduction to Computer Information Systems**	**3**
CAB 135	Electronic Spreadsheeting 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 from the following:		2
CAB 125	Word Processing Using Word	
CAB 130	Presentation Software Using PowerPoint	
CAB 235	Advanced Spreadsheeting Using Excel	
or other CAB, CIS or CNS course (except CAB 110)		
Hours		**12**

SECOND YEAR

Semester One		
CIS 116	Introduction to the MS-Windows Operating System	
or CIS 118	or Linux Operating System	2
or other CAB, CIS or CNS course (except CAB 110)		
CIS 203	Managing Information Systems	3
CIS 205	Documentation and Technical Writing	3
Select one from the following:		**3**
CAB 104	Skill Building and Formatting	
CAB 184	Communication Strategies	
CNS 105	**Networking Essentials**	
Hours		**11**
Total Hours		**34**

Computer Networking and Systems A.A.S.

60 Semester Credit Hours

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

Note: Refer to page 25 for guidelines on IAI General Education course selection.

General Education Requirements:		Hours
Area A — Communications		
	EGL 101 Composition I *(also available as AP)*	**3**
	Select one from the following:	**3**
	EGL 102 Composition II	
	EGL 111 Introduction to Business and Technical Writing	
	EGL 212 Technical Writing Applications	
	SPE 103 Effective Speech	
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[1]		0-3
	One course that satisfies Global Studies requirement	
	GBS 101 Introduction to Global Business (recommended)	
Area G — U.S. Diversity Studies[2]		0-3
	One course that satisfies U.S. Diversity Studies requirement	
Total Hours		**18**

1 *Students may take a Global Studies course that satisfies both Area F and another Area requirement.*
2 *Students may take a U.S. Diversity course that satisfies both Area G and another Area requirement.*

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

Cisco Track		
CNS 141	Cisco Introduction to Networks	3
CNS 142	Cisco Switching, Routing, and Wireless Essentials	3
CNS 143	Cisco Enterprise Networking, Security, and Automation	3
Total Hours		**9**

Microsoft Track		
CNS 111	Windows Server[1]	3
CNS 114	Windows Server[2]	3
CNS 116	Windows Server[3]	3
Total Hours		**9**

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 25 for guidelines on IAI General Education course selection.

General Education Requirements:		Hours
Area A — Communications		
	EGL 101 Composition I *(also available as AP)*	**3**
	Select one from the following:	**3**
	EGL 102 Composition II	
	EGL 111 Introduction to Business and Technical Writing (recommended)	
	EGL 212 Technical Writing Applications	
	SPE 103 Effective Speech (recommended)	
Area B — Mathematics		4
	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[1]		0-3
	One course that satisfies Global Studies requirement	
	GBS 101 Introduction to Global Business (recommended)	
Area G — U.S. Diversity Studies[2]		0-3
	One course that satisfies U.S. Diversity Studies requirement	
Total Hours		**19**

1 *Students may take a Global Studies course that satisfies both Area F and another Area requirement.*
2 *Students may take a U.S. Diversity course that satisfies both Area G and another Area requirement.*

Major Requirements		
CIS 101	***Introduction to Computer Information Systems***	**3**
CIS 118	Linux Operating System	2
CIS/CNS 228	Linux Administration	3
CNS 105	**Networking Essentials**	**3**
CNS 110	Windows Client Desktop[1]	3
CNS 170	**Principles of Information Security**	**3**
CNS 171	Hardening Network Security	3
CNS 172	Network Defense and Countermeasures	3
CNS 174	Introduction to Computer Forensics	3
CNS 176	Network Security	3
CNS 195	TCP/IP Packet Analysis	3
ELT 130	Microcomputer Hardware Systems	3
Select electives form the following to complete the 60-credit-hour required total:		**3-6**
CNS 101	Orientation to IT Professions	
Select any CNS courses 111 or higher not taken previously		
CIS 103	Computer Software and Concepts	
CIS/CNS 238	Linux Network Services Administration	
ELT 140	Computer Peripherals	
ELT 150	A+ Certification Preparation	
MAT 116	Applied Mathematics II	
MAT 140	**College Algebra**	
Total Hours		**41**

Network Security Administrator Certificate

Courses for a Certificate		Hours
CNS 105	**Networking Essentials**	**3**
CNS 141	Cisco Introduction to Networks	3
CNS 142	Cisco Switching, Routing, and Wireless Essentials	3
CSC 157	Python Computer Science I	3
CNS 172	Network Defense and Countermeasures	3
CNS 174	Introduction to Computer Forensics	3
CNS 176	Network Security	3
CNS 181	Implementing and Operating Cisco Security Technologies	3
CNS 195	TCP/IP Packet Analysis	3
CNS 121	IT Certification Preparation	1
CNS/CIS 228	Linux Administration	3
Total Hours		**31**

Windows Server Administration Certificate

Courses for a Certificate		Hours
CNS 105	**Networking Essentials**	**3**
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
Total Hours		**16**

Windows Support Technician Certificate

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

Dual Credit

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.

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

Early Childhood Education A.A.S.

60 Semester Credit Hours

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

Note: Refer to page 25 for guidelines on IAI General Education course selection.

FIRST YEAR

Semester One		Hours
ECE 102	**Child Growth and Development**	**3**
ECE 104	Introduction to Early Childhood Education	3
ECE 108	Nutrition, Health and Safety for the Young Child	3
EGL 101	**Composition I *(also available as AP)***	**3**
MAT 125	**General Education Mathematics**	
or MAT 131	***or Elementary Statistics***	**4**
Hours		**16**
Semester Two		
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
EGL 102	**Composition II**	**3**
or SPE 103	or Effective Speech	
Hours		**15**

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[1]	3
Select one Humanities/Fine Arts course		3
Select one from the following:		**3**
PSY 101 Introduction to Psychology		
or one Global Studies course[2]		
Hours		**15**
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[2] or higher)[3]		
Hours		**15**
Total Hours		**61**

1 *Course fulfills the U.S. Diversity Requirement. At least one U.S. Diversity course is required for degree completion.*

2 *Course fulfills the Global Studies Requirement. At least one Global Studies course is required for degree completion.*

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

Advanced Early Childhood Education Certificate

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

FIRST YEAR

Fall Semester		Hours
ECE 102	**Child Growth and Development**	**3**
ECE 104	Introduction to Early Childhood Education	3
ECE 108	Nutrition, Health and Safety for the Young Child	3
EGL 101	**Composition I *(also available as AP)***	**3**
MAT 125	**General Education Mathematics**	
or MAT 131	***or Elementary Statistics***	**4**
Hours		**16**
Spring Semester		
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
Hours		**15**
Total Hours		**31**

Basic Infant Toddler Certificate

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

FIRST YEAR

Fall Semester		Hours
ECE 102	**Child Growth and Development**	**3**
ECE 104	Introduction to Early Childhood Education	3
ECE 108	Nutrition, Health and Safety for the Young Child	3
Hours		**9**
Spring Semester		
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
Hours		**12**
Total Hours		**21**

Advanced Infant Toddler Certificate

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

FIRST YEAR

Fall Semester		Hours
ECE 102	**Child Growth and Development**	**3**
ECE 104	Introduction to Early Childhood Education	3
ECE 215	Infant Toddler Techniques	3
EGL 101	**Composition I *(also available as AP)***	**3**
MAT 125	**General Education Mathematics**	
or MAT 131	***or Elementary Statistics***	**4**
Hours		**16**
Spring Semester		
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
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**

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
ECE 102	**Child Growth and Development**	**3**
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
Hours		**12**
Spring Semester		
ECE 107	Observation and Assessment of the Young Child	3
ECE 180	The Exceptional Child	3
ECE 270	Child, Family, and Community Relations	3
Hours		**9**
Total Hours		**21**

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		
ECE 102	**Child Growth and Development**	**3**
ECE 104	Introduction to Early Childhood Education	3
ECE 165	Family Child Care Provider I	3
EGL 101	**Composition I *(also available as AP)***	**3**
MAT 125	**General Education Mathematics**	
or MAT 131	***or Elementary Statistics***	**4**
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
ECE 102	**Child Growth and Development**	**3**
ECE 107	Observation and Assessment of the Young Child	3
ECE 108	Nutrition, Health and Safety for the Young Child	3
ECE 270	Child, Family, and Community Relations	3
ECE 273	Introduction to Early Childhood Administration	3
Hours		**15**
Spring Semester		
ECE 180	The Exceptional Child	3
ECE 255	Curriculum Design for Early Childhood Programs	3
ECE 282	Marketing and Public Relations for the Early Childhood Program Director	2
ECE 283	Staff Management and Human Relations in Early Childhood Programs	1
ECE 284	Leadership and Advocacy for the Early Childhood Program Director	1
ECE 285	Communications for the Early Childhood Program Director	1
ECE 274	Early Childhood Director Practicum	3
Hours		**14**
Summer Semester		
ECE 280	Legal Aspects of Early Childhood Administration	1
ECE 281	Fiscal Management in Early Childhood Administration	2
Hours		**3**
Total Hours		**32**

Dual Credit

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 25 for guidelines on IAI General Education course selection.

FIRST YEAR

Semester One		Hours
ELT 101	Introduction to Electronics	5
ELT 130	Microcomputer Hardware Systems	3
CNS 105	**Networking Essentials**	**3**
MAT 114	Applied Mathematics I	4
Hours		**15**
Semester Two		
EGL 101	**Composition I *(also available as AP)***	**3**
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		
ELT 221	**Digital Circuit Fundamentals**	**3**
ELT 223	Integrated Circuits	3
PHY 101	Applied Physics	4
Select one from 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 from the following:		3
HUM 165	Introduction to World Music[1]	
HUM 210	World Mythologies[1]	
PHL 205	World Religions[1]	
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[2]	
SOC 103	Social Problems[3]	
SSC 105	Introduction to Ethnic Studies[2]	
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**

1 *Course fulfills the Global Studies Requirement. At least one Global Studies course is required for degree completion.*
2 *Course fulfills the U.S. Diversity Requirement. At least one Global Studies course is required for degree completion.*
3 *Course fulfills both, the Global Studies and U.S. Diversity Requirements.*

Electronics Technology Certificate

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

FIRST YEAR

Semester One		Hours
ELT 101	Introduction to Electronics	5
ELT 130	Microcomputer Hardware Systems	3
CNS 105	**Networking Essentials**	**3**
MAT 114	Applied Mathematics I	4
Hours		**15**
Semester Two		
ELT 106	Semiconductor Theory	3
ELT 110	Electronic Drafting Using CAD	4
PHY 101	Applied Physics	4
MAT 116	Applied Mathematics II	**3-4**
or MAT 140	**or College Algebra**	
Hours		**14-15**

SECOND YEAR

Semester One		
ELT 221	**Digital Circuit Fundamentals**	**3**
ELT 231	Fundamentals of Microprocessors	3
MFG 240	Programmable Logic Controllers (PLC)	4
ELT 225	Digital Integrated Circuits	
or ELT 224	or Industrial Circuit Applications	3
Hours		**13**
Total Hours		**42-43**

Electronics Computer Technician Certificate

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

FIRST YEAR

Semester One		Hours
ELT 101	Introduction to Electronics	5
ELT 130	Microcomputer Hardware Systems	3
ELT 140	Computer Peripherals	3
MAT 114	Applied Mathematics I	4
Hours		**15**
Semester Two		
ELT 106	Semiconductor Theory	3
ELT 110	Electronic Drafting Using CAD	4
CIS 103	Computer Software and Concepts	4
CNS 105	**Networking Essentials**	**3**
Hours		**14**

SECOND YEAR

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

Home/Office Technology Integrator Certificate

This certificate can be completed in one semester.

Courses for a Certificate		Hours
ELT 105	Network Infrastructure Essentials	3
or CNS 140	or Network Infrastructure Essentials	
ELT 108	Home Technology Integration	3
ELT 114	**Residential Wiring**	**3**
or ELT 204	or Wireless Technology Integration (WTI)	
Total Hours		**9**

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, Web site creation, studio photographer, video broadcast and sound production, World Wide Web, CD and game production, photojournalism and portraiture, 3-D cutscene artist, project manager.

Note: Refer to page 25 for guidelines on IAI General Education course selection.

FIRST YEAR

Semester One		Hours
EGL 101	**Composition I *(also available as AP)***	**3**
ART 131	***Drawing I***	**3**
ART 250	Introduction to Computer Art	3
ART 105	***Fundamentals of Two-Dimensional Art I***	
or GRD 101	**or Introduction to Visual Communication**	**3**
ART 115	**Beginning Photography**	**3**
or ART 117	or Digital Photography	
Hours		**15**

Semester Two		
ART 216	Introduction to Digital Imaging	3
ART 224	Introduction to Graphic Design	3
ART 268	Digital 2D Animation and Multimedia	3
Select one from the following:		3
EGL 111	Introduction to Business and Technical Writing	
EGL 212	Technical Writing Applications	
SPE 103	Effective Speech	
MAT 125	**General Education Mathematics** (or other Mathematics or Science course)	**4**
Hours		**16**

SECOND YEAR

Semester One		
ART 225	Graphic Design Layout and Typography	3
ART 259	Introduction to Web Design	3
ART 260	Introduction to 3D Animation and Multimedia	3
Select one course from one of the Media Tracks listed on the degree requirements page		3-4
Select one from the following:		3
ANT 102	Introduction to Social and Cultural Anthropology[1]	
SOC 103	Social Problems[2]	
SOC 232	Sociology of Race and Ethnicity[3]	
SSC 105	Introduction to Ethnic Studies[3]	
SSC 201	Introduction to Global Studies[1]	
or other Social and Behavioral Sciences course		
Select one from the following:		3
ART 114	Art History: Art of the Non-Western World[1]	
ART 125	History of Graphic Design	
HUM 122	Contemporary Culture and the Arts	
HUM 127	Introduction to Philosophy	
HUM 161	Global Cinema[1]	
HUM 162	Film and Literature	
HUM 210	World Mythologies[1]	
or other Humanities/Fine Arts course		
Hours		**18-19**

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
HIS 115	African American History: Reconstruction to the Present[3]	
HUM 124	African-American Culture and the Arts[3]	
HUM 140	Introduction to Women's and Gender Studies[3]	
HUM 141	Introduction to LGBTQ Studies[3]	
HUM 142	Women and Creativity[3]	
HUM 242	Women, Art and Culture[3]	
SOC 230	Sociology of Sex and Gender[3]	
or other U.S. Diversity Studies course		
Hours		**15-16**
Total Hours		**64-66**

1 *Course fulfills the Global Studies Requirement. At least one Global Studies course is required for degree completion.*
2 *Course fulfills both, the Global Studies and U.S. Diversity Requirements.*
3 *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
ART 105	***Fundamentals of Two-Dimensional Art I***	**3**
or GRD 101	**or Introduction to Visual Communication**	
ART 115	**Beginning Photography**	**3**
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**
ART 107	***Fundamentals of Three-Dimensional Art I***	
ART 110	History of Photography	
ART 116	Alternative Photographic Processes	
ART 217	Advanced Digital Imaging	
ART 218	Advanced Black and White Photography	
ART 220	Advanced Digital Photography	
ART 222	View Camera	
ART 223	Landscape Photography Field Study	
ART 227	Medium Format Photography	
ART 230	Architectural Photography	
ART 237	Documentary Photography	
ART 257	Advanced Masking and Compositing	
Hours		**18**
Total Hours		**33**

Health Information Technology A.A.S.

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

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

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

Note: Refer to page 25 for guidelines on IAI General Education course selection.

FIRST YEAR

Program Minimum Requirements		Hours
BIO 114	**Basic Human Anatomy and Physiology**	**3**
HIT 104	**Medical Terminology**	**3**
HIT 105	Pharmacology for Health Record Documentation	1
Hours		**7**

Semester One (Fall)		
MAT 131	***Elementary Statistics***	**4**
EGL 101	**Composition I *(also available as AP)***	**3**
HIT 121	Fundamentals of Health Information Management	3
HIT 124	Fundamentals of Medical Science	3
Hours		**13**

Semester Two (Spring)		
HIT 108	International Classification of Disease (ICD)	3
HIT 131	Healthcare Statistics and Registries	2
HIT 170	CPT Coding	2
Select one Social and Behavioral Science course		3
Select one U.S. Diversity Studies course:		0-3
EGL 135	Introduction to Native American Literature[1]	
SOC 101	Introduction to Sociology (recommended)[2]	
SSC 105	Introduction to Ethnic Studies[2]	
SPE 115	Interpersonal Communication Across Cultures[1]	
or other U.S. Diversity Studies course		
Select at least three credit hours from the following:		3
CAB 130	Presentation Software Using PowerPoint	
CAB 135	Electronic Spreadsheeting Using Excel	
CAB 140	Database Application Using Access	
HIT 111	ICD-10-CM Coding for the Physician Office	
HIT 112	Anatomy and Physiology for ICD-10-CM Coding	
HIT 115	Insurance Procedures for the Medical Office: Medicare	
HIT 116	Insurance Procedures for the Medical Office: Non-Medicare	
PHL 180	Medical Ethics	
Hours		**13-16**

SECOND YEAR

Semester One (Fall)		
HIT 120	Evaluation and Management Coding in CPT	1
HIT 194	Electronic Health Record and Applications	3
HIT 251	Health Information Technology Practicum I	3
HIT 260	Principles of Healthcare Reimbursement	3
Select one from the following:		**3**
EGL 102	**Composition II (recommended)**	
EGL 111	Introduction to Business and Technical Writing	
EGL 212	Technical Writing Applications	
SPE 103	Effective Speech (recommended)	
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 252	Health Information Technology Practicum II	3
Select one Humanities/Fine Arts course		3
Select one Global Studies course[3]		0-3
Select one elective to complete 61 credit hours required for degree		3
Hours		**15-18**
Total Hours		**61-67**

1 *Course fulfills both, the Global Studies and U.S. Diversity Requirements.*
2 *Course fulfills the U.S. Diversity Requirement. At least one U.S. Diversity course is required for degree completion.*
3 *Course fulfills the Global Studies Requirement. At least one Global Studies course is required for degree completion.*

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
HIT 104	**Medical Terminology**	**3**
HIT 105	Pharmacology for Health Record Documentation	1
HIT 111	ICD-10-CM Coding for the Physician Office	2
HIT 112	Anatomy and Physiology for ICD-10-CM Coding	3
Hours		**9**

Summer Semester		
HIT 170	CPT Coding	2
Hours		**2**

SECOND YEAR

Fall Semester		
HIT 115	Insurance Procedures for the Medical Office: Medicare	1
HIT 116	Insurance Procedures for the Medical Office: Non-Medicare	1
HIT 120	Evaluation and Management Coding in CPT	1
HIT 125	Medical Billing Practices	2
Hours		**5**
Total Hours		**16**

Basic Nurse Assistant Training Certificate

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

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

Courses for a Certificate		Hours
BNA 100	**Basic Nurse Assistant Training**	**7**
BNA 105	**Basic Nurse Assistant Job Training**	**1**
Total Hours		**8**

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 skills in accordance with the standards and guidelines recommended by the Medical Assistant Education Review Board.

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

FIRST YEAR

Semester One		Hours
MAP 120	Basic Healthcare Skills For The Medical Assistant	2
MAP 180	Healthcare Office Procedures for the Medical Assistant	3
HIT 104	**Medical Terminology**	**3**
MLT 105	Introduction to Health Care Issues	1
MLT 107	Phlebotomy	4
Hours		**13**
Semester Two		
MAP 185	Medical Billing and Coding For the Medical Assistant	3
MAP 230	Clinical Skills for the Medical Assistant	6
HIT 105	Pharmacology for Health Record Documentation	1
MLT 204	Phlebotomy Practicum	2
Hours		**12**
Semester Three		
MAP 260	Medical Assistant Practicum	3
Hours		**3**
Total Hours		**28**

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

1 *Course fulfills both, the Global Studies and U.S. Diversity Requirements.*
2 *Course fulfills the U.S. Diversity Requirement. At least one U.S. Diversity course is required for degree completion.*
3 *Course fulfills the Global Studies Requirement. At least one Global Studies course is required for degree completion.*

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.

Note: Refer to page 25 for guidelines on IAI General Education course selection.

FIRST YEAR

Semester One		Hours
BIO 231	Human Anatomy and Physiology I	4
HIT 104	**Medical Terminology**	**3**
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
EGL 101	**Composition I *(also available as AP)***	**3**
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)		
PSY 101	***Introduction to Psychology***	**3**
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:		**3**
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[1]	
SOC 101	Introduction to Sociology[2]	
SPE 115	Interpersonal Communication Across Cultures[1]	
SSC 105	Introduction to Ethnic Studies[2]	
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[3]	
HUM 165	Introduction to World Music[3]	
PHL 180	Medical Ethics	
PHL 205	World Religions[3]	
PHL 240	Philosophy of Religion[3]	
or other Humanities course		
Select one from the following:		3
ANT 102	Introduction to Social and Cultural Anthropology[3]	
ART 114	Art History: Art of the Non-Western World[3]	
HIS 113	History of Native Americans[1]	
Modern Language courses (202 or higher)[3] or other Global Studies course		
Hours		**15**
Semester Three (Summer)		
PTA 262	Clinical Practicum IV	3
Hours		**3**
Total Hours		**69-72**

Law Enforcement and Criminal Justice A.A.S.

60 Semester Credit Hours

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

Note: Refer to page 25 for guidelines on IAI General Education course selection.

FIRST YEAR

Semester One		Hours
EGL 101	**Composition I *(also available as AP)***	**3**
LAE 101	Introduction to Criminal Justice	3
LAE 270	Law of Evidence	3
Select one from the following:		3
SOC 101	Introduction to Sociology[1]	
SOC 103	Social Problems[2]	
SSC 105	Introduction to Ethnic Studies[1]	
Select one from the following:		3
PHL 105	Logic	
PHL 106	Ethics	
PHL 205	World Religions[3]	
Hours		**15**
Semester Two		
LAE 221	Criminal Law	3
LAE 245	Juvenile Delinquency	3
SPE 103	Effective Speech	3
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[3]	
PSC 202	International Relations[3]	
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**

1 *Course fulfills the U.S. Diversity Requirement. At least one U.S. Diversity course is required for degree completion.*

2 *Course fulfills both, the Global Studies and U.S. Diversity Requirements.*

3 *Course fulfills the Global Studies Requirement. At least one Global Studies course is required for degree completion.*

Forensics Certificate

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

FIRST YEAR

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

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
LAE 135	**Forensics I**	**3**
LAE 221	Criminal Law	3
LAE 235	Criminal Investigations	3
LAE 275	Security Guard Training	3
Total Hours		**18**

Manufacturing Technology A.A.S.

60 Semester Credit Hours

This degree prepares students for technical positions in modern manufacturing production and engineering design. The curriculum focuses on preparing the student for job positions in the CNC setup and programming, machine maintenance, manufacturing engineering, and product and fixture design.

Note: Refer to page 25 for guidelines on IAI General Education course selection.

FIRST YEAR

Fall Semester		Hours
EGL 101	**Composition I *(also available as AP)***	**3**
MAT 114	Applied Mathematics I	4
CAD 116	**Basic AutoCAD**	**3**
MFG 102	**Industrial Drafting and Design**	**3**
MFG 110	**Introduction to Machining**	**3**
Hours		**16**
Spring Semester		
ELT 101	Introduction to Electronics	5
MFG 135	Hydraulics, Pneumatics and Controls	3
MFG 141	CNC Machine Operation - NIMS Test Preparation	4
Select one from the following:		**3**
EGL 102	**Composition II**	
EGL 111	Introduction to Business and Technical Writing	
EGL 212	Technical Writing Applications	
SPE 103	Effective Speech	
Hours		**15**

SECOND YEAR

Fall Semester		
MFG 140	Introduction to Robotics and Vision Systems	4
MFG 144	Introduction to CNC Programming	4
MFG 165	Mastercam Computer Aided Manufacturing	4
Select one from the following:		4
MFG 240	Programmable Logic Controllers (PLC)	
MFG 245	Programmable Automation Controllers (PAC)	
Hours		**16**
Spring Semester		
Select one from the following:		4
MFG 145	Advanced CNC Programming	
MFG 166	Mastercam Computer Aided Manufacturing II	
MFG 250	Advanced Automation Applications (PLC/PAC/HMI)	
Select one Social and Behavioral Sciences course that also satisfies Global Studies[1] or U.S. Diversity Studies[2] requirement		3
Select one Humanities/Fine Arts course that also satisfies Global Studies[1] or U.S. Diversity Studies[2] requirement		3
Select one additional MFG course		4
Hours		**14**
Total Hours		**61**

Mechatronics Technology A.A.S.

60 Semester Credit Hours

This program, a merger of electronics and manufacturing courses, prepares students for technical job positions in automation and industrial maintenance. Possible job positions would be in Computer Integrated Manufacturing (CIM), robotic engineering, system integrations, and industrial equipment design.

Note: Refer to page 25 for guidelines on IAI General Education course selection.

FIRST YEAR

Fall Semester		Hours
EGL 101	**Composition I *(also available as AP)***	**3**
MAT 114	Applied Mathematics I	4
MFG 102	**Industrial Drafting and Design**	**3**
MFG 111	**Introduction to Computer Integrated Manufacturing (CIM)**	**3**
MFG 220	Automation Vision Systems	3
Hours		**16**
Spring Semester		
ELT 101	Introduction to Electronics	5
MFG 135	Hydraulics, Pneumatics and Controls	3
Select one from 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 from the following:		**4**
CAD 210	**Industrial Design Engineering Techniques**	
CAD 230	Introduction to SolidWorks	
ELT 110	Electronic Drafting Using CAD	
MFG 245	Programmable Automation Controllers (PAC)	
Hours		**15**

SECOND YEAR

Fall Semester		
ELT 106	Semiconductor Theory	3
ELT 221	**Digital Circuit Fundamentals**	**3**
MFG 140	Introduction to Robotics and Vision Systems	4
MFG 240	Programmable Logic Controllers (PLC)	4
Hours		**14**
Spring Semester		
ELT 223	Integrated Circuits	3
ELT 231	Fundamentals of Microprocessors	3
MFG 250	Advanced Automation Applications (PLC/PAC/HMI)	4
Select one Social and Behavioral Sciences course that also satisfies Global Studies[1] or U.S. Diversity Studies[2] requirement		3
Select one Humanities/Fine Arts course that also satisfies Global Studies[1] or U.S. Diversity Studies[2] requirement		3
Hours		**16**
Total Hours		**61**

1 *At least one Global Studies course is required for degree completion.*
2 *At least one U.S. Diversity Studies course is required for degree completion.*

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 25 for guidelines on IAI General Education course selection.

FIRST YEAR

Fall Semester		Hours
EGL 101	**Composition I *(also available as AP)***	**3**
MAT 114	Applied Mathematics I	4
MFG 102	**Industrial Drafting and Design**	**3**
MFG 112	Automated Storage and Distribution	3
Select one Social and Behavioral Sciences course that also satisfies Global Studies[1] or U.S. Diversity Studies[2] requirement		3
Hours		**16**
Spring Semester		
ELT 101	Introduction to Electronics	5
MFG 135	Hydraulics, Pneumatics and Controls	3
Select one from 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 from the following:		**3**
CNS 105	Networking Essentials	
ELT 120	Introduction to Radio Frequency Identification	
MFG 110	**Introduction to Machining**	
MFG 220	Automation Vision Systems	
MGT 155	Operations and Supply Chain Management	
MGT 156	Introduction to Transportation, Warehousing and Logistics	
Hours		**14**

SECOND YEAR

Fall Semester		
ELT 107	Survey of Electronics	3
MFG 120	**Introduction to Welding**	**4**
MFG 240	Programmable Logic Controllers (PLC)	4
Select one from the following:		4
GIS/EAS 190	Geographic Information Systems I	
MFG 140	Introduction to Robotics and Vision Systems	
MFG 250	Advanced Automation Applications (PLC/PAC/HMI)	
Hours		**15**
Spring Semester		
ELT 231	Fundamentals of Microprocessors	3
MEC 220	Elements of Machine Design	3
MFG 245	Programmable Automation Controllers (PAC)	4
Select one elective course not taken previously:		**3-4**
CNS 105	**Networking Essentials**	
ELT 120	Introduction to Radio Frequency Identification	
GIS/EAS 190	Geographic Information Systems I	
MFG 110	**Introduction to Machining**	
MFG 140	Introduction to Robotics and Vision Systems	
MFG 220	Automation Vision Systems	
MFG 250	Advanced Automation Applications (PLC/PAC/HMI)	
MGT 155	Operations and Supply Chain Management	
MGT 156	Introduction to Transportation, Warehousing and Logistics	
Select one Humanities/Fine Arts course that also satisfies Global Studies[1] or U.S. Diversity Studies[2] requirement		3
Hours		**16-17**
Total Hours		**61-62**

1 *At least one Global Studies course is required for degree completion.*
2 *At least one U.S. Diversity course is required for degree completion.*

Manufacturing Technology Certificate

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
MAT 114	Applied Mathematics I	4
MFG 110	**Introduction to Machining**	**3**
MFG 140	Introduction to Robotics and Vision Systems	4
CAD 116	**Basic AutoCAD**	**3**
or MFG 102	**or Industrial Drafting and Design**	
MFG 240	Programmable Logic Controllers (PLC)	
or MFG 245	or Programmable Automation Controllers (PAC)	4
Hours		**18**
Semester Two		
MFG 135	Hydraulics, Pneumatics and Controls	3
MFG 141	CNC Machine Operation - NIMS Test Preparation	4
MFG 165	Mastercam Computer Aided Manufacturing	4
Select one from the following:		**3**-5
ELT 101	Introduction to Electronics	
MFG 111	**Introduction to Computer Integrated Manufacturing (CIM)**	
MFG 144	Introduction to CNC Programming	
MFG 250	Advanced Automation Applications (PLC/PAC/HMI)	
Hours		**14**
Total Hours		**32**

Mechatronics Supply Chain Technician Certificate

The following pathway is recommended for students pursuing the Mechatronics Supply Chain Technician Certificate. This certificate prepares students for careers in Supply Chain Management (SCM). Possible jobs positions would be in technical support and overseeing of the flow of goods and services. It includes the movement and storage of raw materials, work-in-process inventory, and finished goods from point of origin to point of consumption.

FIRST YEAR

Fall Semester		Hours
MFG 111	**Introduction to Computer Integrated Manufacturing (CIM)**	**3**
MGT 155	Operations and Supply Chain Management	3
Hours		**6**
Spring Semester		
MFG 135	Hydraulics, Pneumatics and Controls	3
MGT 156	Introduction to Transportation, Warehousing and Logistics	3
Hours		**6**
Total Hours		**12**

Mechatronics Technology Certificate

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

FIRST YEAR

Fall Semester		Hours
CAD 116	**Basic AutoCAD**	**3**
ELT 101	Introduction to Electronics	5
MFG 240	Programmable Logic Controllers (PLC)	4
Hours		**12**
Spring Semester		
ELT 106	Semiconductor Theory	3
MFG 135	Hydraulics, Pneumatics and Controls	3
MFG 250	Advanced Automation Applications (PLC/PAC/HMI)	4
Select one from the following:		**3**
ELT 110	Electronic Drafting Using CAD	
ELT 231	Fundamentals of Microprocessors	
MFG 102	**Industrial Drafting and Design**	
Hours		**13**

SECOND YEAR

Fall Semester		
ELT 221	**Digital Circuit Fundamentals**	**3**
ELT 223	Integrated Circuits	3
ENG 120	Engineering Graphics	3
MFG 140	Introduction to Robotics and Vision Systems	4
Hours		**13**
Total Hours		**38**

Automation and Controls Certificate

This certificate prepares students for technical job positions in industrial maintenance and automation. Possible job positions would be in automated production line maintenance, robotic cell safeguarding, and industrial machine up keeping. This certificate can be completed in one semester.

Courses for a Certificate		Hours
MFG 111	**Introduction to Computer Integrated Manufacturing (CIM)**	**3**
MFG 135	Hydraulics, Pneumatics and Controls	3
MFG 140	Introduction to Robotics and Vision Systems	4
MFG 240 or MFG 245	Programmable Logic Controllers (PLC) Programmable or Automation Controllers (PAC)	4
Total Hours		**14**

Welding Certificate

Welding is a skill used by various trades and welding applications that range from sculptures by home hobbyist to heavy metal fabrication of bridges, ships, and many other projects. The Welding Certificate follows the standards of American Welding Society (AWS) and covers training of the four welding systems including electric arc, oxy-fuel, gas metal arc, and gas tungsten arc welding processes with emphasis on OSHA operational safety requirements. Welders are employed in shipyards, manufacturing, building and construction, industrial maintenance, repair shops and more. This certificate can be completed in one semester.

Courses for a Certificate		Hours
MFG 102	**Industrial Drafting and Design**	**3**
MFG 110	**Introduction to Machining**	**3**
MFG 120	**Introduction to Welding**	**4**
Total Hours		**10**

Advanced CNC Machinist Certificate

This certificate is intended for students who are interested in expanding their knowledge and skills beyond CNC machine operation, setup, and programming. Students will acquire essential skills for a professional CNC programmer, such as industrial design and CAD. Additionally, students will learn about industrial robotics and Programmable Logic Controllers (PLC), which are integral parts of modern CNC operations.

Courses for a Certificate		Hours
CAD 116 or MFG 110	**Basic AutoCAD or Introduction to Machining**	**3**
MFG 102	**Industrial Drafting and Design**	**3**
MFG 140 or MFG 165	Introduction to Robotics and Vision Systems or Mastercam Computer Aided Manufacturing	4
MFG 141	CNC Machine Operation - NIMS Test Preparation	4
MFG 144	Introduction to CNC Programming	4
MFG 240 or MFG 245	Programmable Logic Controllers (PLC) Programmable or Automation Controllers (PAC)	4
Select one from the following:		4
MFG 145	Advanced CNC Programming	
MFG 166	Mastercam Computer Aided Manufacturing II	
MFG 250	Advanced Automation Applications (PLC/PAC/HMI)	
Total Hours		**26**

Production Technician Certificate

The Production Technician Certificate offers credentials for entry-level manufacturing production workers. The material taught in the program provides the fundamental knowledge and skill sets for anyone seeking a job in the manufacturing industry. Prospective students who earn the certification will enter production market with an understanding of manufacturing technology processes and technical skills required for the position.

Courses for a Certificate		Hours
MFG 102	**Industrial Drafting and Design**	**3**
MFG 110	**Introduction to Machining**	**3**
MFG 111	**Introduction to Computer Integrated Manufacturing (CIM)**	**3**
Total Hours		**9**

Programmable Controllers (PLC/PAC) Technician Certificate

The following pathway is recommended for students pursuing the Programmable Controllers (PLC/PAC) Technician Certificate. The job of Programmable Controllers (PLC/PAC) Technician is to design, program, calibrate, monitor, troubleshoot, and repair automation systems ranging from simple traffic lights to complex industrial automation systems. These sophisticated automation systems are controlled by devices commonly known as Programmable Logic/Automation Controllers (PLC/PAC) and Human Machine Interface (HMI). The purpose of the program is to prepare students to this challenging yet highly rewarding opportunity in modern automation/ mechatronics field.

FIRST YEAR

Fall Semester		Hours
MFG 111	**Introduction to Computer Integrated Manufacturing (CIM)**	**3**
MFG 240	Programmable Logic Controllers (PLC)	4
Hours		**7**
Spring Semester		
MFG 245	Programmable Automation Controllers (PAC)	4
MFG 250	Advanced Automation Applications (PLC/PAC/HMI)	4
Hours		**8**
Total Hours		**15**

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 25 for guidelines on IAI General Education course selection.

FIRST YEAR

Semester One		Hours
EGL 101	**Composition I *(also available as AP)***	**3**
CAD 116	**Basic AutoCAD**	**3**
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
CAD 117	**Intermediate AutoCAD**	**4**
CAD 107	**Introduction to 3D Printing**	**2**
MEC 220	Elements of Machine Design	3
CAD 232	Intermediate SolidWorks	4
Hours		**17**

SECOND YEAR

Semester One		
CAD 118	Advanced AutoCAD	4
MEC 230	Statics and Strength of Materials	3
CAD 234	Advanced SolidWorks	4
CIS 101	***Introduction to Computer Information Systems***	**3**
Select one elective from CAD, FME, GIS, MEC or MFG		2-4
Hours		**16-18**
Semester Two		
PHY 101	Applied Physics	4
Select one from 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 from the following:		3
HUM 165	Introduction to World Music[1]	
HUM 210	World Mythologies[1]	
PHL 205	World Religions[1]	
Select one from the following:		3
SOC 101	Introduction to Sociology[2]	
SOC 103	Social Problems[3]	
SSC 105	Introduction to Ethnic Studies[2]	
Hours		**13**
Total Hours		**62-64**

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
CAD 116	**Basic AutoCAD**	**3**
ENG 120	Engineering Graphics	3
MEC 105	Processes and Materials	3
CIS 101	***Introduction to Computer Information Systems***	**3**
Select one elective from CAD, FME, GIS, MEC or MFG		4
Hours		**16**
Semester Two		
CAD 117	**Intermediate AutoCAD**	**4**
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**

Computer-Aided Design Certificate

The Computer-Aided Design Certificate prepares students for CAD drafting job positions using AutoCAD software. Students will be 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 Draftsperson, Architectural Draftsperson, and General Design Draftsperson. This certificate can be completed in one semester.

Courses for a Certificate		Hours
CAD 116	**Basic AutoCAD**	**3**
CAD 117	**Intermediate AutoCAD**	**4**
CAD 118	Advanced AutoCAD	4
Total Hours		**11**

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 be proficient in 3D Computer modeling and 2D drafting and annotation of part drawing techniques for manufacturing. Possible job positions include: Industrial drafts-person, 3D print technician, and mechanical designer.

FIRST YEAR

Semester One		Hours
CAD 116	**Basic AutoCAD**	**3**-4
or CAD 230	or Introduction to SolidWorks	
Hours		**3-4**
Semester Two		
CAD 107	**Introduction to 3D Printing**	**2**
CAD 117	**Intermediate AutoCAD**	**4**
or CAD 234	or Advanced SolidWorks	
Hours		**6**

SECOND YEAR

Semester One		
CAD 210	**Industrial Design Engineering Techniques**	**4**
Hours		**4**
Total Hours		**13-14**

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 be proficient in creating floor plans and elevation drawings using AutoCAD and creating 3D computer models of interior floor plans. Possible job positions include CAD draftsperson and interior detail draftsperson. This certificate can be completed in one semester.

Courses for a Certificate		Hours
CAD 134	**Basic AutoCAD for Interior Design**	**4**
CAD 136	Advanced AutoCAD for Interior Design	4
Total Hours		**8**

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 draftsperson and general CAD designer.

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

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 Draftsperson and Interior Draftsperson.

FIRST YEAR

Semester One		Hours
CAD 220	**CAD Introduction to Building Systems - Revit**	**4**
Hours		**4**
Semester Two		
CAD 224	**Advanced Building Information Modeling - Revit**	**4**
or CAD 228	or Revit MEP – Mechanical Electrical Plumbing	
Hours		**4**

SECOND YEAR

Semester One		
CAD 224	**Advanced Building Information Modeling - Revit**	**4**
or CAD 228	or Revit MEP – Mechanical Electrical Plumbing	
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
Communication		
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		
GRD 101	**Introduction to Visual Communication**	**3**
ART 216	Introduction to Digital Imaging	3
or CAB 172	or Adobe Photoshop	
ART 259	Introduction to Web Design	3
Electives[1]		
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		
CAD 116	**Basic AutoCAD**	
CAD 117	**Intermediate AutoCAD**	
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**

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
AP Capstone			
Research		3	Social Science Elective
Seminar		3	Social Science Elective
Arts			
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
English			
English Language and Composition	3	3	EGL 101
English Literature and Composition	3	3	EGL 129
History and Social Science			
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
Math and Computer Science			
Calculus AB	3	5	MAT 250
Calculus BC	3	9	MAT 250, 251
Computer Science A	3	3	CSC 156
Computer Science Principles	3	3	CIS 101
Statistics	3	3	MAT 131
Sciences			
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 *(Must get 3 or higher on both Physics 1 and 2)*
World Languages and Culture			
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

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

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*. Several of these courses can also be earned through advanced placement or dual credit.

Illinois Articulation Initiative (IAI) General Education Courses

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

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
EGL 101	**Composition I (C1 900) *(also available as AP)*[1]**	**3**
EGL 102	**Composition II (C1 901R)[1]**	**3**
SPE 103	Effective Speech (C2 900)	3

1 *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
MAT 125	**General Education Mathematics (M1 904)**	**4**
MAT 129	Foundations of Mathematics for Elementary Teachers II (M1 903)	3
MAT 131	***Elementary Statistics (M1 902)***	**4**
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
MAT 250	***Calculus I (M1 900-1)***	**5**
MAT 251	***Calculus II (M1 900-2)***	**4**
MAT 252	**Calculus III (M1 900-3)**	**4**

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
Life Science		
BIO 101	Introduction to Life Science (L1 900L)	4
BIO 103	A Survey of Ecology (L1 905)	3
BIO 104	Human Genetics (L1 906)	3
BIO 105	Human Genetics (L1 906L)	4
BIO 106	***Introduction to Environmental Science (L1 905L)[1]***	**4**
BIO 109	Plants and Society (L1 901)	3
BIO 116	Microbe and Society (L1 903)	3
BIO 121	***General College Biology I (L1 910L)***	**4**
BIO 122	***General College Biology II (L1 910L)***	**4**
Physical Science		
CHM 101	Introductory Chemistry (P1 902L)	4
CHM 105	Elements of Chemistry (P1 902L)	4
CHM 121	***General College Chemistry I (P1 902L)***	**4**
EAS 100	Introduction to Earth Science (P1 905L)	4
EAS 101	**Physical Geology (P1 907L)**	**4**
EAS 102	Historical Geology (P1 907L)	4
EAS 105	Introduction to Weather and Climate (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
PHY 115	Descriptive Astronomy (P1 906)	3
PHY 120	Practical Astronomy (P1 906L)	4
PHY 131	***College Physics I (P1 900L)***	**4**
PHY 221	General Physics I (P2 900L)	5

1 *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
Anthropology		
ANT 102	Introduction to Social and Cultural Anthropology (S1 901N)[1]	3
ANT 103	Introduction to Archaeology (S1 903)	3
ANT 104	Introduction to Physical Anthropology (S1 902)	3
Economics		
ECO 110	Elements of Economics (S3 900)	3
ECO 201	***Principles of Macroeconomics (S3 901)***	**3**
ECO 202	***Principles of Microeconomics (S3 902)***	**3**

Concurrent Enrollment

History		
HIS 111	***United States History to 1877 (S2 900)***	**3**
HIS 112	***United States History from 1877 (S2 901)***	**3**
HIS 113	History of Native Americans (S2 923D)[3]	3
HIS 131	***Western Civilization to 1650 (S2 902)***	**3**
HIS 132	***Western Civilization since 1650 (S2 903)***	**3**
HIS 139	History of the Non-Western World to 1900 (S2904N)[1]	3
HIS 140	History of Contemporary Non-Western Civilizations (S2 905N)[1]	3
HIS 203	History of South Asia I (S2 920N)[1]	3
HIS 204	History of South Asia II (S2 920N)[1]	3
HIS 208	History Of Ancient Africa (S2 920N)[1]	3
HIS 211	History of Modern Africa (S2 920N)[1]	3
HIS 216	History of Modern China (S2 920N)[1]	3
HIS 225	History of the Islamic Middle East from the 7th Century to 1918 (S2 920N)[1]	3
HIS 226	History of the Islamic Middle East in Modern Times (S2 920N)[1]	3
HIS 233	History of Latin America to Independence (S2920N)[1]	3
HIS 234	History of Modern Latin America (S2 920N)[1]	3
Geography		
GEG 120	World Regional Geography (S4 900N)[1]	3
GEG 122	***Cultural Geography (S4 900N)***[1]	**3**
GEG 130	Introduction to Economic Geography (S4 903N)[1]	3
Political Science		
PSC 101	***American Government (S5 900)***	**3**
PSC 103	Introduction to Political Science (S5 903)	3
PSC 201	Comparative Government (S5 905)[1]	3
PSC 202	International Relations (S5 904)[1]	3
Psychology		
PSY 101	***Introduction to Psychology (S6 900)***	**3**
PSY 120	Human Development (S6 902)	3
PSY 202	Social Psychology (S8 900)[2]	3
PSY 205	Adult Psychology (S6 905)	3
PSY 211	Child Psychology (S6 903)	3
Sociology		
SOC 101	Introduction to Sociology (S7 900)[2]	3
SOC 103	Social Problems (S7 901)[3]	3
SOC 104	Sociology of Marriage and Family (S7 902)[2]	3
SOC 230	Sociology of Sex and Gender (S7 904D)[2]	3
SOC 232	Sociology of Race and Ethnicity (S7 903D)[2]	3
Social Science		
SSC 101	The Individual in Modern Society (S9 900)	3
SSC 105	Introduction to Ethnic Studies (S7 903D)[2]	3
SSC 201	Introduction to Global Studies (S9 900)[1]	3

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

Humanities/Fine Arts (Area E)

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

Course		Hours
Humanities		
EGL 113	Introduction to Drama (H3 902)	3
EGL 115	Introduction to Fiction (H3 901)	3
EGL 117	Introduction to Poetry (H3 903)	3
EGL 129	***Introduction to Literature (H3 900)***	**3**
EGL 130	Introduction to Global Literature (H3 908N)[1]	3
EGL 131	Multicultural Literature in the U.S. (H3 910D)[2]	3
EGL 132	LGBTQ+ Literature (H3 911D)[2]	3
EGL 133	Women and Literature (H3 911D)[2]	3
EGL 134	Introduction to African-American Literature (H3910D)[2]	3
EGL 135	Introduction to Native American Literature (H3910D)[3]	3
EGL 221	American Literature I: Beginnings to 1865 (H3 914)[2]	3
EGL 222	American Literature II (from The Civil War to the Present) (H3 915)[2]	3
EGL 231	British Literature I (from Anglo-Saxons to 1800) (H3 912)	3
EGL 232	British Literature II (from 1800 to the Present) (H3913)	3
EGL 234	Introduction to Shakespeare (H3 905)	3
EGL 241	Masterpieces of Western Literature I (H3 906)	3
EGL 242	Masterpieces of Western Literature II (H3 907)	3
HUM 120	Western Culture and the Arts: Beginnings through the Middle Ages (HF 902)	3
HUM 121	Western Culture and the Arts: Renaissance through the 20th Century (HF 903)	3
HUM 122	Contemporary Culture and the Arts (HF 901)	3
HUM 124	African-American Culture and the Arts (HF 906D)[2]	3
HUM 127	Introduction to Philosophy (H4 900)	3
HUM 140	Introduction to Women's and Gender Studies (H9900)[2]	3
HUM 141	Introduction to LGBTQ Studies (H9 900)[2]	3
HUM 142	Women and Creativity (HF 907D)[2]	3
HUM 150	Environmental Humanities (HF 900)	3
HUM 210	World Mythologies (H9 901)[1]	3
HUM 220	Asian Humanities (HF 904N)[1]	3
PHL 105	Logic (H4 906)	3
PHL 106	Ethics (H4 904)	3
PHL 110	Introduction to the Study of Religion (H5 900)[1]	3
PHL 130	Religious Diversity in America (H5 905)[2]	3
PHL 204	Environmental Ethics (H4 904)[1]	3
PHL 205	World Religions (H5 904N)[1]	3
PHL 215	Asian Philosophy (H4 903N)[1]	3
PHL 230	Ancient and Medieval Philosophy (H4 901)	3
PHL 231	Modern and Contemporary Philosophy (H4 902)	3
PHL 240	Philosophy of Religion (H4 905)	3
PHL 245	Foundational Religious Texts (H5 901)	3
Modern language course 202 or higher[1]		
Fine Arts		
ART 110	History of Photography (F2 904)	3
ART 111	***Art History: Prehistoric to Renaissance (F2 901)***	**3**
ART 112	***Art History: Renaissance to Modern (F2 902)***	**3**
ART 113	Art History: Modern Art (Twentieth Century) (F2902)	3
ART 114	Art History: Art of the Non-Western World (F2903N)[1]	3
HUM 120	Western Culture and the Arts: Beginnings through the Middle Ages (HF 902)	3
HUM 121	Western Culture and the Arts: Renaissance through the 20th Century (HF 903)	3
HUM 122	Contemporary Culture and the Arts (HF 901)	3
HUM 123	Introduction to Art (F2 900)	3
HUM 124	African-American Culture and the Arts (HF 906D)[2]	3
HUM 125	Introduction To Music (F1 900)	3
HUM 131	Introduction to Theater (F1 907)	3
HUM 142	Women and Creativity (HF 907D)[2]	3
HUM 150	Environmental Humanities (HF 900)	3
HUM 160	Introduction to Film (F2 909)	3
HUM 161	Global Cinema (F2 909)[1]	3
HUM 165	Introduction to World Music (F1 903N)[1]	3
HUM 220	Asian Humanities (HF 904N)[1]	3
HUM 242	Women, Art and Culture (F2 907D)[2]	3
HUM 260	Perspectives on Film (F2 908)	3
MUS 145	Introduction to Music of the U.S.A. (F1 904)	3
MUS 236	Music Literature and History (F1 901)	3

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

1 *Course also fulfills the Global Studies requirement.*
2 *Course also fulfills the U.S. Diversity requirement.*
3 *Course also fulfills Global Studies and U.S. Diversity requirements.*

Global Studies[1] (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
Sciences		
BIO 106	Introduction to Environmental Science (L1 905L)	4
Social and Behavioral Sciences		
ANT 102	Introduction to Social and Cultural Anthropology (S1 901N)	3
GEG 120	World Regional Geography (S4 900N)	3
GEG 122	Cultural Geography (S4 900N)	3
GEG 130	Introduction to Economic Geography (S4 903N)	3
HIS 113	History of Native Americans (S2 923D)[2]	3
HIS 139	History of the Non-Western World to 1900 (S2904N)	3
HIS 140	History of Contemporary Non-Western Civilizations (S2 905N)	3
HIS 203	History of South Asia I (S2 920N)	3
HIS 204	History of South Asia II (S2 920N)	3
HIS 208	History of Ancient Africa (S2 920N)	3
HIS 211	History of Modern Africa (S2 920N)	3
HIS 216	History of Modern China (S2 920N)	3
HIS 225	History of the Islamic Middle East from the 7th Century to 1918 (S2 920N)	3
HIS 226	History of the Islamic Middle East in Modern Times (S2 920N)	3
HIS 233	History of Latin America to Independence (S2920N)	3
HIS 234	History of Modern Latin America (S2 920N)	3
PSC 201	Comparative Government (S5 905)	3
PSC 202	International Relations (S5 904)	3
SOC 103	Social Problems (S7 901)[2]	3
SSC 201	Introduction to Global Studies (S9 900)	3
Humanities/Fine Arts		
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)[2]	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 136	Introduction to Latino/a/x Literature[2]	3
EGL 229	[National/Regional] Literature	3
GBS 101	Introduction to Global Business[3]	3
HIS 228	History of the Holocaust	3
HIS 260	History of Soviet Russia	3
PSC 204	International Terrorism	3
PSC 250	International Security: War and Peace	3
SPE 115	Interpersonal Communication Across Cultures[2]	3
SSC 205	Latin American Civilization and Culture	3
SSC 206	Contemporary China and Japan	3

U.S. Diversity Studies[2] (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
Social and Behavioral Sciences		
HIS 113	History of Native Americans (S2 923D)[1]	3
PSY 202	Social Psychology (S8 900)	3
SOC 101	Introduction to Sociology (S7 900)	3
SOC 103	Social Problems (S7 901)[1]	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
Humanities		
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)[1]	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
EGL 136	Introduction to Latino/a/x Literature[1]	3
HIS 114	African American History: Beginnings to 1865	3
HIS 115	African American History: Reconstruction to the Present	3
HIS 235	Women In American History	3
MGT 232	Diversity, Equity and Inclusion in the Workplace	3
PSY 110	Multicultural Psychology	3
PSY 122	Human Sexuality	3
PSY 125	Understanding Diversity	3
SPE 115	Interpersonal Communication Across Cultures[1]	3
SPE 125	Basic Sign Language	3

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

1 Course also fulfills the Global Studies requirement.
2 *Course fulfills the U.S. Diversity requirement.*
3 *This course will not count toward the minimum general education requirements for the A.A.S. degree.*

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*.

Associate in Arts (A.A.)

Anthropology Pre-major

Biology Pre-major for Associate in Arts

Computer Science Pre-major for Associate in Arts

Economics Pre-major

Elementary Education Pre-major

English Pre-major

Environmental Studies Pre-major

Exploring Humanities Pre-major

Geography Pre-major

Global Studies Pre-major

History Pre-major

Jewish Studies Pre-major

Law Enforcement and Criminal Justice Pre-major

Modern Languages Pre-major

Peace and Social Justice Studies Pre-major

Philosophy Pre-major

Political Science Pre-major

Psychology Pre-major

Religious Studies Pre-major

Secondary Education – Humanities, Behavioral/Social Sciences or Arts Pre-major

Secondary Education – Science or Math Pre-major

Sociology Pre-major

Special Education Pre-major

Speech Pre-major

Theater Pre-major

Women, Gender, and Sexuality Studies Pre-major

Associate in Fine Arts (A.F.A.) in Art
Associate in Fine Arts (A.F.A.) in Music

Associate in General Studies (A.G.S.)

Paraprofessional Educator Pathway

Associate in Science (A.S.)

Biology Pre-major for Associate in Science

Chemistry Pre-major

Computer Science Pre-major for Associate in Science

Earth Science Pre-major

Mathematics Pre-major

Physics Pre-major

Associate of Science in Engineering (A.S.E.)

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

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**.
- Apply to Oakton as an Early College student.




Oakton Community College

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