

# Computer Information Systems - Cybersecurity Option (CIS.CYS.AAS)

## Associate in Applied Science

### Business, Management, Marketing and Technology

Auburn Hills Campus

The Computer Information Systems (CIS) associate degrees are designed for students who need general education (e.g., communication, science, mathematics, fine arts, social science) combined with a solid foundation in the fundamental computer skills that are generally required to design, create, and test software, or analyze business system requirements and design solutions, or support and protect the operation of technology resources. These fundamental computer skills are commonly required by most four-year educational programs that offer the types of bachelor degrees most employers look for when hiring information technology professionals. All CIS courses use current computer tools and place an emphasis on practical application to provide a relevant learning environment.

**Program Plan Example - Click Here** (<https://www.oaklandcc.edu/academics/docs/cis.cys.aas.2017.pdf>)

#### Major Requirements

CIS 1200	Introduction to Database Systems	4
CIS 1300	Networking Concepts	4
CIS 1550	Introduction to Secure Programming	3
CIS 1600	Fundamentals of Cybersecurity	4
CIS 1610	Data Security	4
CIS 1620	Introduction to Cryptography	4
CIS 1630	Security Policy, Legal, Ethics and Compliance	3
CIS 2111	Systems Analysis and Design (UML)	4
CIS 2434	Introduction to Linux and Unix Administration	3
CIS 2535	Microsoft Windows Server Administration	3
CIS 2838	System Security	4
CIS 2845	Computer Forensics	4

#### Required Supportive Courses

COM 1290 <sup>1</sup>	Interpersonal Communication	3
ENG 1510 <sup>1</sup>	Composition I	3
MAT 1150 <sup>1</sup>	Intermediate Algebra (or higher level except MAT 1525, MAT 2530 or MAT 2540)	3-4
PHI 1710 <sup>1</sup>	Introduction to Informal Logic	3
PER 1300	Stress Management: Neuromuscular Relaxation	2
<b>Total Credit Hours for Program-Related Courses</b>		<b>58-59</b>

#### General Education Requirements

Communication / English (3-credits)	Satisfied
Fine Arts / Humanities (3-credits)	Satisfied
Mathematics / Science (3-credits)	Satisfied
Social Science (3-credits)	3

Any Social Science from the General Education Distribution List (<http://catalog.oaklandcc.edu/graduation-requirements/general-education-distribution/#social-science>)

Written Communication (3-credits)

Satisfied

**Additional elective credits needed to meet requirements for an Associate in Applied Science degree** 0-1

**Total Credit Hours** 62

<sup>1</sup> Course may be used to meet General Education requirements.

A minimum cumulative 2.00 grade point average (GPA) overall is required for graduation.