Elgin Community College and Aurora University

Associate in Science Degree and Bachelor of Science Degree Computer Science Major

First and	Second V	ear at Fløir	Communit	v College
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This and Second Tear at Light Community Conege					
Semester 1 at ECC	AU Equivalent	Semester 2 at ECC	AU Equivalent		
CIS 121 Computer	CSC 1700 Introduction to	CIS 223 Computer Science II	CSC 2XXX Computer Science		
Science I (4)	Computer Programming (4)	(4)	Elective (4)		
MTH 112 College Algebra	MTH 1100 College Algebra	MTH 120 Statistics I (4)	MTH 2320 General Statistics (4)		
(4)	(4)	ENG 102 English	ENG Elective		
ENG 101 English	ENG 1000 Intro to	Composition II (3)			
Composition I (3)	Academic Writing (4)	Life Science Gen Ed- BIO 108	BIO 1210 Biology of Cells (4)		
Physical Science Gen Ed	Elective or Gen Ed Req.	Biology for Contemporary			
(3-4)		Society (4) recommended			
Semester 3 at ECC	AU Equivalent	Semester 4 at ECC	AU Equivalent		
CIS 226 Computer	CSC 2150 Data Structures &	CIS 227 Computer	CSC 2300 Computer		
Science III (4)	Algorithms (4)	Organization (3)	Architecture (4)		
CIS 127 Discrete	MTH 3270 Discrete	Humanities Gen Ed (3)	Elective or Gen Ed Req.		
Structures (3)	Mathematics (4)	Social Science Gen Ed (3)	Elective or Gen Ed Req.		
CMS 101 Fundamentals	COM 1XXX	Behavioral Science Gen Ed	Elective or Gen Ed Req.		
of Speech (3)	Communications Elective	(3)			
Fine Arts Gen Ed (3)	Elective or Gen Ed Req.	Electives to reach minimum			
		of 60 credits			

Third and Fourth Year at Aurora University

Students complete coursework for either the Information Technology or Software Engineering track for the Computer Science major.

Computer Science BS: Information Technology Track				
Semester 5 at Aurora University (12.5 hours)	Semester 6 at Aurora University (16.5 hours)			
IDS 3500 Junior Mentoring (.5)	IDS 3550 Junior Mentoring (.5)			
CSC 2200 Web Application Development (4)	CSC 3350 Networks and Security (4)			
Electives* (8)	CSC 2450 Operating Systems Administration (4)			
	Electives* (8)			
Semester 7 at Aurora University (16 hours)	Semester 8 at Aurora University (16 hours)			
CYB 4610 Ethical Hacking OR>	CSC 4620 Computer Forensics (4)			
CSC 3400 Computer Security	CSC 4990 Computer Science and Engineering Capstone (4)			
CSC 4500 Database Design and Implementation	Electives* (4-8 hours)			
Electives* (4-8 hours)				
CSC 4500 Database Design and Implementation Electives* (4-8 hours)				

Computer Science BS: Software Engineering Track				
Semester 6 at Aurora University (16.5 hours)				
IDS 3550 Junior Mentoring (.5)				
CSC 3510 Software Test., Ver., Val. & QA (4)				
CSC 3700 Advanced Web App Development (4)				
Electives* (8)				
Semester 8 at Aurora University (16 hours)				
CSC 4990 Computer Science and Engineering Capstone (4)				
Electives* (12)				

^{*}Electives may be used to fulfill any general education deficiencies. A minimum of 30 hours must be 3000 level or higher of which a minimum of 15 must be within the major. A grade of C or higher is required in all general education and major coursework. Total hours must equal 120 or higher with a minimum cumulative GPA of 2.0/4.0.

Electives* (8)