

COMPUTER SCIENCE PRE-MAJOR FOR ASSOCIATE IN ARTS

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The following Pre-major is recommended for students who are considering completing a Bachelor's of Arts degree in Computer Science after transferring to a four-year institution. It is designed for students who have not decided upon a specific four-year college or university. Once a transfer school is selected, students are strongly encouraged to consult the Office of Advising, Transitions, and Student Success and the transfer institution's catalog to select courses that will meet both Oakton and transfer institution requirements.

For more information on course selection or program-specific advising, contact the program coordinator. Part time students should also consult the Office of Advising, Transition, and Student Success for part-time Pre-major recommendations. **General Education courses should be selected from the list of IAI General Education Courses.**

Course	Title	Hours
First Year		
Semester One		
EGL 101	Composition I	3
CIS 101	Introduction to Computer Information Systems	3
MAT 143 or MAT 180	Finite Mathematics or Calculus for Business and Social Science	4
Select one of the following:		3-4
Note: At least one science course with lab is required for degree completion		
BIO 101	Introduction to Life Science (lab)	
BIO 104	Human Genetics	
BIO 106	Introduction to Environmental Science (lab) ¹	
BIO 109	Plants and Society	
BIO 121	General College Biology I (lab)	
		Hours
		14
Semester Two		
EGL 102	Composition II	3
SPE 103	Effective Speech	3
SOC 101 or PSC 101	Introduction to Sociology ² or American Government	3
Select one of the following:		3
CSC 155	C++ Computer Science I	
CSC 156	Java Computer Science I	
CSC 157	Python Computer Science I	
Select one of the following:		3-4
Note: At least one science course with lab is required for degree completion		
EAS 105	Introduction to Weather and Climate	
EAS 121	Physical Geography	
EAS 125	A Survey of Oceanography	
EAS 205	Environmental Geology	
PHY 115	Descriptive Astronomy	
PHY 131	College Physics I (lab)	
CHM 101	Introductory Chemistry (lab)	
CHM 105	Elements of Chemistry (lab)	
CHM 121	General College Chemistry I (lab)	
		Hours
		15

Second Year

Semester One

MAT 144	Discrete Mathematics	3
ECO 201 or ECO 202	Principles of Macroeconomics or Principles of Microeconomics	3
Select one of the following:		3
CSC 240	C++ Data Structures	
CSC 241	Java Data Structures	
CSC 242	Python Data Structures	
Select one of the following:		3
CNS 105	Networking Essentials	
CSC 180	Introduction to Artificial Intelligence	
CSC 204	Computer Architecture and Organization	
CSC 206	Software Cybersecurity	
Select one of the following:		3
EGL 115	Introduction to Fiction	
EGL 129	Introduction to Literature	
EGL 135	Introduction to Native American Literature ³	
PHL 105	Logic	
PHL 106	Ethics	
PHL 205	World Religions ¹	
HUM 127	Introduction to Philosophy	
HUM 140	Introduction to Women's and Gender Studies	

Hours **15**

Semester Two

CIS 131 or MAT 190	Web Page Development or Business Statistics	4
CIS 201 or CSC 255	Information Systems for Business or Objects and Algorithms	3
Select one of the following:		3
ANT 102	Introduction to Social and Cultural Anthropology ¹	
GEG 120	World Regional Geography ¹	
HIS 140	History of Contemporary Non-Western Civilizations ¹	
PSC 202	International Relations ¹	
SSC 201	Introduction to Global Studies ¹	
Select one of the following:		3
ART 114	Art History: Art of the Non-Western World ¹	
HUM 121	Western Culture and the Arts: Renaissance through the 20th Century	
MUS 236	Music Literature and History	
Select one of the following:		3
HUM 124	African-American Culture and the Arts ²	
HUM 142	Women and Creativity ²	

Hours **16**

Total Hours **60**

- 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 U.S. Diversity course is required for degree completion.
- ³ Course fulfills both, the Global Studies and U.S. Diversity Requirements.

Note: Pre-major is a recommended sequence and selection of courses. For degree requirements see Associate in Arts (A.A.).