

COMPUTER SCIENCE AND CYBERSECURITY DEPARTMENT

MAJOR CHECKLIST FALL 2020-SUMMER 2021

This checklist aids in placement of students into their major coursework and documents the department evaluation of transferred credit and course waivers, based on coursework listed on the Degree Audit Report (DARs). A student must complete General Education and Liberal Studies (GELS) along with other graduation requirements for graduation – refer to your DARs.

Official admission to this major program and review of prior course credentials is done directly through the Computer Science and Cybersecurity (CSC) Department. Contact information is noted at the bottom of this checklist.

Student Name	Metro State ID #	Date

PRE-MAJOR FOUNDATION COURSES: 20 CREDITS

In order to declare a Computer Information Technology major, students are required to complete the following foundation courses listed with a grade of C- or better:

- *Minimum cumulative GPA of 2.5 for ICS 141 and MATH 215 or transfer equivalents*
- *All programming courses must be within the last 5 years; and*
- *Successful completion of General Education Goal I Writing requirement*
- *Demonstrate competency in the Java programming language either by coursework (e.g., ICS 141) or passing a Java competency exam.*

Students who do not meet the pre-major foundation requirements noted in this section or are on academic probation will not be accepted to the major. Students not accepted to the major will not be allowed to take advanced courses in the discipline.

Course #	Title	Transfer Equivalent Details	Credits	Grade	✓
MATH 115 or MATH 120	College Algebra OR Precalculus				
MATH 215	Discrete Math				
ICS 140	Computational Thinking with Programming				
ICS 141	Programming with Objects				
ICS 225	Web Design and Implementation				

JAVA COMPETENCY REQUIREMENT

Check box if demonstrated competency in Java either through course work or passing exam.

WRITING COURSE REQUIREMENT

Check box if General Education Goal I Writing requirement has been successfully completed. Reference DARs to determine which courses fulfill this requirement.

Pending completion of _____.

GPA Calculation: A = 4.00, A- = 3.67, B+ = 3.33, B = 3.00, B- = 2.67, C+ = 2.33, C = 2.00, C- = 1.67, D = 1.00, F = 0

CORE REQUIREMENTS: 32 CREDITS

Once admitted into major the following courses are required.

Course #	Title	Transfer Equivalent Details	Upper Division	Credits	Grade	✓
CFS 262	Computer and Operating Systems I					
CFS 264	Computer and Operating Systems II					
STAT 201	Statistics I					
ICS 311	Database Management Systems					
CYBR 332 or ICS 382	Computer Security					
ICS 370	Software Design Models					
ICS 325 or ICS 425	Internet Application Development, OR, Client Server Architectures					
ICS 499	Software Engineering and Capstone Project					

Note: Students who have taken and passed ICS 240 may take ICS 372 in lieu of ICS 370.

ELECTIVE COURSE REQUIREMENT: 8 CREDITS

- Any 200-level or higher CFS, CYBR and ICS course not used as required for the major may be used for electives, with the following exceptions: CFS 499, ICS 372, ICS 381, and ICS 390.
- Repeatable exceptions: ICS 490 Special Topics in Information and Computer Sciences and ICS 492 Seminar on Emerging Technologies may be taken more than once for elective credit, so long as the topics differ.

- *Internship/Residency: A maximum of 4-credits in ICS 350I Individualized Internship may be spread over 1-3 semesters.*

Course #	Title	Transfer Equivalent Details	Upper Division	Grade	Credits	✓

ADDITIONAL NOTES, CREDIT TOTALS OR COMMENTS:

Academic advisor notes:

GRADUATION REQUIREMENTS

Below is a summary of residency and graduation requirements for this major and used as an advising tool as you work towards completion. Students are advised to reference their DARs for official graduation requirements.

Major Requirements Checklist	Remaining	In Progress	Completed
60 Major credits			
20 Metro State Major Credits			
24 Upper Division Major (300 or higher)			

University Requirements Checklist	Remaining	In Progress	Completed
120 Total Credits (minimum), and GPA of 2.0 or better			
30 Metro State Credits			
40 Upper Division (300 or higher)			
48 credits GELS +RIGR (see DARs)			

CONTACT US

For specific questions about this major program or equivalencies of prior coursework at other institutions, contact the Computer Science and Cybersecurity Department at:

Email: CSC@metrostate.edu *Tel:* 651.793.1471 *Web:* www.metrostate.edu/csc-department



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