

**Bachelor of Science in
Computer Science
2023-2024 Catalog**

Student: _____

ID#: _____

Advisor: _____

DATE: ____/____/____

Overall Requirements to Graduate

- 120+ semester hours
- Completion of core curriculum
- Completion of a major
- 36 upper division credit hours
- GPA above 2.0
- Major GPA above 2.0
- Minor/Program complete (optional)



**UNIVERSITY OF
ST. THOMAS**

Credit Hour Breakdown	
Hours completed	
Hours in progress	
Core hours needed	
Major hours needed	
(Minor hours needed)	
(Other hours needed)	
Elective hours needed	
TOTAL HOURS (120+)	

Major Requirements (68 credit hours)		Completed	Needed
Computer Science (33 credit hours)			
<input type="checkbox"/> COMSC 1450 – Introduction to Programming and Computer Science <input type="checkbox"/> COMSC 1451 – Object Oriented Programming (pre-req COMSC 1450) <input type="checkbox"/> COMSC 2351 – Data Structures (pre-req COMSC 1451) <input type="checkbox"/> COMSC 3365 – Computer Organization and Programming Languages (pre-req COMSC 1451) <input type="checkbox"/> COMSC 3375 – Database Systems (pre-req COMSC 1451) <input type="checkbox"/> COMSC 3385 – Computer Architecture (pre-req COMSC 1451) <input type="checkbox"/> COMSC 4101 – Computer Science Seminar <input type="checkbox"/> COMSC 4320 – Operating Systems (pre-req COMSC 3385) <input type="checkbox"/> COMSC 4340 – Computer Networks (pre-req COMSC 1451) <input type="checkbox"/> COMSC 4345 – Foundations of Data Science (pre-req COMSC 3375) <input type="checkbox"/> COMSC 4350 – System Development Project [Capstone] (pre-req Senior Standing)			
Computer Science Electives (6 credit hours) Complete two of the following:			
<input type="checkbox"/> COMSC 3371 – Intro to Data Analytics <input type="checkbox"/> COMSC 3372 – Data Visualization <input type="checkbox"/> GSCE 4301 – Governing the Digital Ecosystem – Technology and Geopolitics <input type="checkbox"/> GSCE 4379 – Cyber Warfare <input type="checkbox"/> COMSC 4393 – Special Topics			
Mathematics (25 credit hours)			
<input type="checkbox"/> MATH 1431 – Calculus I (MATH 1430 with a C or better or department consent) <input type="checkbox"/> MATH 1432 – Calculus II (MATH 1431 with a grade of C or better) <input type="checkbox"/> MATH 2431 – Calculus III (MATH 1432 with a grade of C or better) <input type="checkbox"/> MATH 3334 – Linear Algebra I (MATH 1432) <input type="checkbox"/> MATH 3335 – A First Course in Probability (MATH 1432) <input type="checkbox"/> MATH 3360 – Discrete Mathematics (MATH 1431) <input type="checkbox"/> MATH 3450 – Biostatistics I (pre-req six credit hours in natural science or mathematics)			
Lab Science (4 credit hours) Biology, Chemistry or Physics			
Complete at least one lecture/lab in an approved science area			

One additional math course completes a Mathematics Minor: (optional)
MATH 2343 Differential Equations