

Previous catalog years:

[2017/18](#)

[2018/19](#)

[2019/20](#)

[2020/21](#)

Catalog Year 2021-22
Computer Science – Honors, B.S.
Central Connecticut State University

Please contact a campus advisor for this program:

Justine Gamache, Gamache@ccsu.edu

Professor Bradley Kjell, Kjell@ccsu.edu

These requirements are effective if you declared the **Transfer Ticket: CSCU Pathway Transfer Degree: Computer Science Studies, A.A.**, for the 2016/17 through 2021/22 academic year.

Follow this [link](#) for important information about when and how to apply for transfer to a State University or Charter Oak State College.

Once you complete the **CSCU Pathway Transfer Degree: Computer Science Studies, A.A.**, the following requirements remain at Central Connecticut State University for you to complete the **Computer Science -- Honors, B.S.** You should meet with your campus contact for this program before registering for courses to ensure that you select the correct courses and the best order for taking them.

You must obtain a C- or better in all courses required for the major. You will be required to take a proficiency test specified by the department during your senior year. A minor is not required for this major.

General Education Requirements:

12-18 credits

[Link to course options for general education](#)

Study Area I: Literature (select one):

3 credits

Study Area I: Art & Humanities (select one):

3 credits

Study Area II: Social Sciences (select one):

3 credits

Study Area III – Behavioral Sciences (select one):

3 credits

Skill Area III – Foreign Language Proficiency:

0-6 credits

[Link to foreign language proficiency requirements](#)

Major Program Requirements:

50 credits

CS 253 Data and File Structures

3 credits

CS 254 Computer Organization and Assembly Language Programming

3 credits

CS 355 Systems Programming

3 credits

CS 385 Computer Architecture

3 credits

CS 463 Algorithms

3 credits

CS 464 Programming Languages

3 credits

CS 483 Theory of Computation

3 credits

CS 492 Computer Security

3 credits

Select 9 hours from the following advanced electives:

9 credits

CS 407 Advanced Topics

CS 415 Game Development

CS 416 Web Programming

CS 423 Graphics

CS 425 Image Processing

CS 460 Database Concepts

CS 462 Artificial Intelligence	
CS 465 Compiler Design	
CS 473 Simulation Techniques	
CS 481 Operating Systems	
CS 490 Networking	
CS 495 Legal, Social, Ethical Issues	
Capstone Requirement:	6 credits
CS 410 Introduction to Software Engineering	
CS 498 Senior Project	
MATH 226 Linear Algebra and Probability for Engineers	4 credits
Select an additional 7 credits in science, STAT, or MATH above MATH 119 (not counting those in the Math category)	7 credits
Minor Requirements:	0 credits
Unrestricted Electives:	0 credits
Remaining credits for the Computer Science -- Honors, B.S.:	62-68 credits