

Previous catalog years:

[2017/18](#)

[2018/19](#)

[2019/20](#)

**Catalog Year 2020-21**  
**Computer Science – Honors, B.S.**  
**Central Connecticut State University**

**Please contact a campus advisor for this program:**

Justine Gamache, [Gamache@ccsu.edu](mailto:Gamache@ccsu.edu)

Professor Bradley Kjell, [Kjell@ccsu.edu](mailto: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, 2017/18, 2018/19, 2019/20, or 2020/21 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,<br>or MATH above MATH 119 (not counting those in the Math category) | 7 credits            |
| <b>Minor Requirements:</b>                                                                                           | <b>0 credits</b>     |
| <b>Unrestricted Electives:</b>                                                                                       | <b>0 credits</b>     |
| <b>Remaining credits for the Computer Science -- Honors, B.S.:</b>                                                   | <b>62-68 credits</b> |