

Sinclair College

College of Engineering and Computer Science
Department of Computer Science & EngineeringAssociate of Science
Engineering University TransferBachelor of Science
COMPUTER SCIENCE

Sinclair College Courses

Wright State University Courses

Communication	Credit Hours	Credit Hours	
ENG 1101 English Composition I	3	3	WSU Core Communications ENG 1100 Academic Writing & Reading
Com 2211 Effective Public Speaking	3	3	COM 1010 General Elective

Mathematics	Credit Hours	Credit Hours	
MAT 2270 Calculus & Analytical Geometry I	5	4	WSU Core Mathematics MTH 2300 Calculus I
MAT 2330 Differential Equations & Linear Algebra*	5	4	Computer Science and Engineering Courses MTH 2350 Differential Equations with Matrix Algebra Note: The CSBS major requires MTH 2530; however, you may petition to request a substitution with MTH 2350. The substitution is not guaranteed.
MAT 2280 Calculus & Analytical Geometry II	5	4	WSU Additional Core MTH 2310 Calculus II

Ohio Transfer Module	Credit Hours	Credit Hours	
Social & Behavioral Science	6	6	WSU Core Social Science
History	3	3	WSU Core Arts & Humanities History
Arts & Humanities	3	3	WSU Core Arts & Humanities

Natural Science	Credit Hours	Credit Hours	
CHE 1211/1251 General Chemistry I	5	4	CHM 1210/1210L General Chemistry I (Additional Core)
PHY 2201/2207 General Physics I	5	5	WSU Core Natural Science PHY 2400/2400L General Physics I
PHY 2202/2208 General Physics II	5	5	WSU Core Natural Science PHY 2410/2410L General Physics II

Engineering Electives	Credit Hours	Credit Hours	
MAT 2570 Discrete Mathematics	4	4	MTH 2570 Discrete MTH for Computing or CS2200 Discrete Struct & Algorithms
CIS 2212 Java Software Development I*	3	4	CS 1180 Computer Science I
CIS 2217 Java Software Development II*	3	4	CS 1181 Computer Science II
CIS 1107 Intro to Operating Systems* & CIS 2550 Linux Operating Systems* Note: Student must take both courses to count as Wright States CEG 2350	3(+3)	4	CEG 2350 OS Concepts & Usage

By completing the associate degree and the Ohio Transfer Model at Sinclair, you will have met the requirements for the Wright State Core. However, you will still need to complete any remaining courses required by the department with the Wright State Core. You must also complete at least two designated Integrated Writing courses in the major at Wright State.

The following additional coursework will be required to complete the Computer Engineering program at Wright State University.

ENG 2140 Research, Technical Writing and Presentation for Scientists & Engineers OR EGR 3350 Technical Communications for Engineers and Computer Scientists	3
CS 1000 Technology and Society	3
CS 3100 Data Structures and Algorithms	3
CEG 3180 Comparative Languages	3
CS 2210 Logic for Computer Scientists or CS 3200 Theoretical Foundations of Computing	3
CEG 3310 Computer Organization	4
CEG 4350 Operating Systems Internals & Design	3
CEG 4980 Team Projects I	3
CEG 4981 Team Projects II	3
Approved CS/CEG Technical Electives	21
STT 3600 Applied Statistics I or ISE 2211 Statistics for Engineers	3
General Electives	7

Students may need to complete additional course work as required by the degree program then in effect. To earn the BACS degree, students must meet the current graduation requirements.