

## Sinclair College

College of Engineering and Computer Science  
Department of Computer Science & Engineering

Associate of Science  
Engineering University Transfer

Bachelor of Science  
COMPUTER ENGINEERING

Sinclair College Courses		Wright State University Courses	
<b>Communication</b>	<b>Credit Hours</b>	<b>Credit Hours</b>	
ENG 1101 English Composition I	3	3	<b>WSU Core Communications</b> ENG 1100 Academic Writing & Reading
Com 2211 Effective Public Speaking	3	3	COM 1010 General Elective
<b>Mathematics</b>	<b>Credit Hours</b>	<b>Credit Hours</b>	
MAT 2270 Calculus & Analytical Geometry I	5	4	<b>WSU Core Mathematics</b> MTH 2300 Calculus I
MAT 2330 Differential Equations & Linear Algebra*	5	4	<b>Computer Science and Engineering Courses</b> MTH 2350 Differential Equations with Matrix Algebra
MAT 2280 Calculus & Analytical Geometry II	5	4	<b>WSU Additional Core</b> MTH 2310 Calculus II
<b>Ohio Transfer Module</b>	<b>Credit Hours</b>	<b>Credit Hours</b>	
Social & Behavioral Science	6	6	<b>WSU Core Social Science</b>
History	3	3	<b>WSU Core Arts &amp; Humanities History</b>
Arts & Humanities	3	3	<b>WSU Core Arts &amp; Humanities</b>
<b>Natural Science</b>	<b>Credit Hours</b>	<b>Credit Hours</b>	
CHE 1211/1251 General Chemistry I	5	4	CHM 1210/1210L General Chemistry I
PHY 2201/2207 General Physics I	5	5	<b>WSU Core Natural Science</b> PHY 2400/2400L General Physics I**
PHY 2202/2208 General Physics II	5	5	<b>WSU Core Natural Science</b> PHY 2410/2410L General Physics II**
<b>Engineering Electives</b>	<b>Credit Hours</b>	<b>Credit Hours</b>	
MAT 2570 Discrete Mathematics	4	4	MTH 2570 Discrete MTH for Computing <b>or</b> 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* <b>Note:</b> 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 Module 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
Additional course in MTH, STT, CHM, BIO, PHY, or EES appropriate for science or engineering majors	3
CS 3100 Data Structures and Algorithms	3
CEG 3310 Computer Organization	4
CEG 3320 Digital System Design	4
CEG 4330 Microprocessor-Based Embedded Systems	4
CEG 4350 Operating Systems Internals & Design	3
CEG 4980 Team Projects I	3
CEG 4981 Team Projects II	3
EE 2010/L Circuit Analysis I/Lab	4
EE 3210 Linear Systems I	3
EE 3310/L Electronic Devices and Circuits/Lab	4
STT 3600 Applied Statistics I or ISE 2211 Statistics for Engineers	3
Technical Electives approved by the Department of Computer Science and Engineering	9
General Electives (may be completed at Sinclair)	6

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.