

**Columbus State Community College
Associate of Science (AS) Degree,
Computer & Information Sciences Transfer Pathway
to Wright State University
Bachelor of Science (BS) Degree, Major: Computer Engineering
Sample Graduation Plan**

Freshman Year (CSCC)

Autumn Semester		Spring Semester	
ENGL 1100 Composition I**	(3)	MATH 1152 or 1172 (choose one)	(5)
MATH 1151 Calculus I	(5)	PHYS 1251 Calculus Based Physics II	(5)
PHYS 1250 Calculus Based Physics I	(5)	CSCI 1103 Intro to Programming Logic	(3)
Social Science*	(3)	Intermediate Composition*	(3)
COLS 1100 First Year Experience	(1)		
	(17)		(16)

Sophomore Year (CSCC)

Autumn Semester		Spring Semester	
MATH 2366 Discrete Math Structures**	(5)	CSCI 1511, 2469, or 2740 (choose one)***	(3)
BIO 1113, CHEM 1171, or GEOL 1121 (choose one)	(4-5)	STAT 2470 Intro to Prob & Stats Engin & Sci	(4)
CSCI 2467 Java Programming I**	(3)	Literature/Cultures & Ideas/Visual & Perf. Arts*	(3)
HIST 1111 or 1112 (choose one)	(3)	Social Science*	(3)
	(15-16)		(13)

*Course options to fulfill this requirement are listed on the last 2 pages of this document. **A grade of C or higher is needed

***See notes on page 2

Junior Year (Wright)

Autumn Semester		Spring Semester	
CEG 2350 Operation Systems Concept & Usage	(4)	CEG 4330 or EE 4620 & 4620L (choose one)	(4)
CEG 3310 Computer Organization	(4)	CS 1000 Technology and Society	(3)
CEG 3320 or EE 2000 & 2000L (choose one)	(4)	CS 3100 Data Structures & Algorithms	(3)
MATH 2350 Diff. Equations w/Matrix Algebra	(4)	EE 2010 Analog Circuit Theory	(3)
		EE 2010L Analog Circuit Theory Lab	(1)
		EGR 3350 or ENG 2140 (choose one)	(3)
	(16)		(17)

Senior Year (Wright)

Autumn Semester		Spring Semester	
CEG 4350 Operating Sys. Internals & Design	(3)	CEG 4981 Team Projects II	(3)
CEG 4980 Team Projects I	(3)	General Elective	(3)
CEG/CS Technical Elective (4000 Level & above)	(3)	CEG/CS Technical Elective (4000 Level & above)	(3)
EE 3310 Electronic Devices & Circuits	(3)	CEG/CS Technical Elective (4000 Level & above)	(3)
EE 3310L Electronic Devices & Circuits Lab	(1)	EE 3210 Linear Systems I	(3)
	(13)		(15)

- **CSCC General Education Requirements:** Students should choose the General Education courses for the AS degree in consultation with their academic and faculty advisors
- **CSCC Degree Plan:** This Sample Graduation Plan was created with the assumption that students would complete the AS Computer & Information Sciences transfer pathway before transferring into the stated bachelor's degree. Completing the general Associate of Science degree is also an option and this document can still be used for degree planning. If you have questions, contact a Columbus State Arts and Sciences Academic Advisor and an advisor at Wright State University.
- **Wright State General Education Requirements:** How a student completes these requirements will vary, depending

on how he or she chose to complete the General Education requirements at Columbus State. Any General Education requirements not completed at Columbus State will need to be completed at Wright State. Students should consult with an academic advisor in the department of the intended major to discuss optimal course selections for General Education effective choice of electives, and appropriate course selections in the major. Students can find more information about their academic advisor at Wright by contacting the Transfer Center at transfer@wright.edu.

- Wright State requires 126-127 semester credit hours to complete the Bachelor of Science degree, Computer Engineering major and an overall GPA of 2.25 or higher.
- ****Computer Engineering Notes:** Students must complete MATH 1151, 1152/1172, 2366; PHYS 1250, 1251; CSCI 1103, 2467, and 1511/2469/2740; and STAT 2470 to complete required major prerequisites and major core courses. However, students must earn a grade of C or higher in MATH 2366, ENGL 1100, and CSCI 2467 for the courses to apply to the major at Wright State. **Students should apply one semester prior to completing their CSCC degree to Wright State University (priority application deadlines: April 1 for Fall; October 15 for Spring; and February 1 for summer).** Students must have an overall GPA of 2.0 to apply as pre-computer engineering majors. Once accepted, students must earn a “C” or higher in CS 1181 in their first semester at Wright plus a 2.25 overall GPA to be fully admitted into the major.

*****CSCI 1511/2469/2740-** Wright State prefers completion of CSCI 2469 for this requirement. CSCI 2469 applies to the BS Computer Engineering degree as the required CS 181: Computer Science II course. This course is required to complete other courses in the junior year of this plan. However, there are prerequisites for CSCI 2469 that may not be covered by financial aid, if you use Federal financial aid to pay for your courses. Students may opt to add the Software Development certificate to the AS CIS program of study which could cover the prerequisites and add benefit for the student. If the student opts for either of the other two courses they will transfer to Wright State as electives toward the program. Students who do complete these other courses should speak with Wright State ASAP about taking the CS 181 course in the summer before starting at Wright State.

Suggested Courses to Complete for Wright State’s General Education Requirement and Requirements for the Associate of Science Degree at Columbus State

Intermediate Composition

For the AS degree, students must complete one course from ENGL 2367, 2467, 2567, 2667, or 2767. ENGL 2767 is recommended.

Historical Study

For the AS degree, students must complete one Historical Study course. Wright State requires completion of HIST 1111 or 1112.

Social Science

For the AS degree, two social science courses are required from two different departments listed on the AS Computer and Information Sciences plan of study.

Literature/Cultures & Ideas/Visual & Performing Arts

For the AS degree, students must complete one course from Literature/Cultures & Ideas/Visual and Performing Arts. Any course listed in these categories from the AS Computer and Information Sciences plan of study.

Natural Sciences

For the AS degree, at least two natural science courses with labs must be completed. PHYS 1250 and 1251 is required for the AS Computer and Information Sciences. Wright State requires one additional science course chosen from BIO 1113, CHEM 1171 or GEOL 1121 for their BS degree.