

Associate of Science Degree: Engineering Specialization 880-02

AREA: Science : Engineering Specialization

DEGREE: Associate of Science Degree

LENGTH: Four semesters (two-year) program

PURPOSE: With tremendous emphasis on technological developments in today's society, great demand exists for engineers to work with developing technologies both at the development stage and the application stage. The associate of science degree program with a specialization in engineering is designed for persons who plan to transfer to a four-year college or university to complete a baccalaureate or higher degree program in an engineering discipline such as mechanical, civil, construction, ocean and mining, and materials engineering.

TRANSFER GUIDELINES: The associate of arts and sciences (AA&S) and associate of science (AS) degrees offered by LFCC are designed to provide freshman and sophomore level course work toward the completion of a bachelor's degree. The AA&S and AS degree programs require students to take essentially the same courses as required by their university/four-year college counterparts in the areas of English, health/physical education, humanities, mathematics, science and social science.

To help facilitate the transfer process, LFCC has created an online 'Transfer Guide' that provides detailed information such as tuition, GPA, application requirements, course equivalents, and other information that may be useful in the transfer process. The transfer guide can be found at www.lfcc.edu/transfer. The Virginia Community College System also offers a Transfer Planning Tool on the Virginia Educational Wizard, which can be found at www.vawizard.org.

Students should begin preparing for transfer as early as possible. Steps in this process include: making a career decision, identifying colleges which offer the intended program of study, examining available transfer information and college catalogs, exploring Guaranteed Admissions and Transfer agreements, talking with transfer representatives, identifying program prerequisites, researching the academic competitiveness of the institutions and program under consideration, attending open house events offered by the colleges and exploring financial aid and housing opportunities.

LFCC offers many services and programs to assist the transfer student. Students are encouraged to seek the assistance of an advisor or counselor to gain additional information to plan a successful transfer experience.

Course #	Title	Credits
First Semester		
ENG 111	College Composition I	3
IT/CS	Computer Elective ¹	3
MTH	Math Elective ¹	3-5
SDV 100/101	College Success Skills	1
	Science with Laboratory ²	4
EGR 120	Intro to Engineering	2
	Total	16-18
Second Semester		
ENG 112	College Composition II	3
	Humanities/Fine Arts ¹	3
MTH	Mathematics Elective ¹	3-8
EGR 123	Intro to Engineering Design	2
CST	Communication Elective ¹	3
	Total	16-19
Third Semester		
	Social Science Elective ¹	3
	Approved STEM Elective ¹	3-4
PED/HLT	Physical Education or Health ¹	1
EGR	Engineering Elective ⁴	6
	Science with Laboratory ²	4
	Total	17-18
Fourth Semester		
ENG	Literature Elective ¹	3
	Social Science Elective ¹	3
	Science with Laboratory ²	4
EGR/MTH	Engineering/Math Elective ^{1,4}	3-4
	Approved Transfer Elective ¹	3
	Total	16-17
	Program Total	65-72

¹ Students are advised to meet with an academic or faculty advisor for optimum course selection for desired major and transfer institution. See the list of approved electives on page 42.

² In the First semester, students should take CHM 111 – College Chemistry I. In the Third semester, students should take PHY 241 – University Physics I, and in the Fourth semester, PHY 242 – University Physics II.

⁴ See the list of approved Technical electives on page 44.