

Associate of Arts & Sciences Science – Engineering Specialization



PURPOSE: The Associate of Arts & Sciences degree program are designed for students who plan to transfer to a four-year college or university to complete a baccalaureate degree program.

PROGRAM REQUIREMENTS: Entry into the program requires the satisfactory completion of four (4) units of high school English, two (2) units of high school algebra, one (1) unit of geometry, one (1) unit of laboratory science, and one (1) unit of social science or their equivalent. Deficiencies in these areas may be corrected by completing the appropriate developmental studies courses. Students are encouraged to check the mathematics requirements of the four-year college or university to which you plan to transfer to determine the appropriate courses to be taken at MECC, as well as to determine the transferability of electives.

First Year

Fall Semester				
	ENG	111	College Composition I	3
	HIS		History (101 or 121) I	3
	MTH	177	Introduction to Linear Algebra	3
	Science		Chemistry III College Chemistry I	4
	MTH	272	Calculus I	4
	SDV	100	College Success Skills	1

Spring Semester				
	ENG	112	College Composition II	3
	HIS		History (102 or 122) II	3
	EGR	140	Engineering Mechanics –Statics	3
	MTH	274	Calculus II	4
	EGR	120	Introduction to Engineering	1
	CST		Speech (100 or 105)	3

Second Year

Fall Semester				
	ENG ¹		Literature (241, 243, or 251) ²	3
	PHY	241	University Physics I	4
	MTH	277	Vector Calculus	4
	EGR	245	Engineering Mechanics - Dynamics	3
			Approved Social Science ³	3
	HLT/PED		Health/Physical Education	1

Spring Semester				
	ENG		Literature (242, 244, or 252)	3
	ITP	120 or 132	Computer Programming ⁴	4
	MTH	279	Ordinary Differential Equations	4
	PHY	242	University Physics II	4
	EGR	246	Mechanics of Materials	3
Total Minimum Credits for Degree				70

¹In partnership with the U.VA Engineering School's PRODUCED in Virginia program, portions of the degree are delivered in the VCCS using distance learning technology. See advisor for details. ²At least one semester of World Literature (ENG 251-252) is recommended. ³Students should consult the social science requirements of the institution to which they are transferring. Social sciences include: Economics, Political Science, Psychology, Geography, and Sociology. ⁴Every student getting an Associate of Arts and Sciences must demonstrate competency in the basic use of computers by completing a transferable ITE course, by satisfying the terms of an articulation agreement or by establishing competency on an assessment test.

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