

Program Map for Engineering: Electrical Track

Term	Course Title	Course	Units	Reason
<b>Fall 1</b>	Intro. to Engineering	Eng Gen 101	2.0	CORE
	Trigonometry with Vectors	Math 241	4.0	AB 705 Default
	General Chemistry I	Chemistry 101	6.0	Required
		<b>TOTAL =</b>	<b>12</b>	
<b>Spring 1</b>	Pre-Calculus	Math 260	5.0	Pre-Requisite to CORE
	College Reading and Composition I	English 101	3.0	IGETC—AB 705 requires English completion in Yr 1
	General Education Coursework	(Arts)	3.0	IGETC for STEM
	General Education Coursework	(Social Science)	3.0	IGETC for STEM
			<b>TOTAL =</b>	<b>14</b>
<b>Fall 2</b>	Calculus I	Math 261	5.0	CORE
	Introduction to Programming Concepts and Methodologies for Engineers	Eng Gen 120	4.0	Required (Math 260 is pre-req)
	Composition and Critical Thinking	English 103	3.0	IGETC for STEM
			<b>TOTAL =</b>	<b>12</b>
<b>Spring 2</b>	Calculus II	Math 262	5.0	CORE
	Physics for Engineers and Scientists	Physics 037	5.0	CORE (Math 261 is pre-req)
	General Education Coursework	(Humanities)	3.0	IGETC for STEM
		<b>TOTAL =</b>	<b>13</b>	
<b>Fall 3</b>	Calculus III	Math 263	5.0	CORE
	Linear Algebra	Math 270	3.0	UC Transfer Req. (offered Fall only)
	Physics for Engineers and Scientists II	Physics 038	5.0	CORE
		<b>TOTAL =</b>	<b>13</b>	
<b>Spring 3</b>	Ordinary Differential Equations	Math 275	3.0	CORE
	Electrical Circuits	Eng Gen 220	4.0	Required
	General Education Coursework	(Social Science)	3.0	IGETC for STEM
	The Human Environment: Biological Processes	ENV SCI 002	3.0	IGETC for STEM
		<b>TOTAL =</b>	<b>13</b>	

Program Map for Engineering: Computer, Software Track

Term	Course Title	Course	Units	Reason
<b>Fall 1</b>	Intro. to Engineering	Eng Gen 101	2.0	CORE
	Trigonometry with Vectors	Math 241	4.0	AB 705 Default
	Intro. to Computer Science	Co Sci 902	3.0	Pre-Requisite to 939
	College Reading and Composition I	English 101	3.0	IGETC—AB 705 requires English completion in Yr 1
		<b>TOTAL =</b>	<b>12</b>	
<b>Spring 1</b>	Pre-Calculus	Math 260	5.0	Pre-Requisite to CORE
	Programming in C	Co Sci 939	3.0	Pre-Requisite to 942 and 990
	General Education Coursework	(Arts)	3.0	IGETC for STEM
	General Education Coursework	(Social Science)	3.0	IGETC for STEM
			<b>TOTAL =</b>	<b>14</b>
<b>Fall 2</b>	Calculus I	Math 261	5.0	CORE
	Introduction to Programming Concepts and Methodologies for Engineers	Eng Gen 120	4.0	Required (Math 260 is pre-req)
	Object Oriented Programming in JAVA	Co Sci 990	4.0	Pre-Requisite to 936
	General Education Coursework	(Humanities)	3.0	IGETC for STEM
			<b>TOTAL =</b>	<b>16</b>
<b>Spring 2</b>	Calculus II	Math 262	5.0	CORE
	Physics for Engineers and Scientists	Physics 037	5.0	CORE (Math 261 is pre-req)
	Intermediate Programming and Data Structures	Co Sci 936	3.0	Required
			<b>TOTAL =</b>	<b>13</b>
<b>Fall 3</b>	Calculus III	Math 263	5.0	CORE
	Physics for Engineers and Scientists II	Physics 038	5.0	CORE
	Discrete Structures	Co Sci 942	3.0	Required
	The Human Environment: Biological Processes	ENV SCI 002	3.0	IGETC for STEM
			<b>TOTAL =</b>	<b>16</b>
<b>Spring 3</b>	Ordinary Differential Equations	Math 275	3.0	CORE
	Electrical Circuits	Eng Gen 220	4.0	Required

	General Education Coursework	(Social Science)	3.0	IGETC for STEM
	Composition and Critical Thinking	English 103	3.0	IGETC for STEM
		<b>TOTAL =</b>	<b>13</b>	