

# DMACC Pre-Engineering Course Planning Worksheet

**\*based on ALEKS score of 76% or higher**

This information is to help with course planning. This is how courses are historically offered but it is not a guarantee.  
Term Offered: FA = Fall / SP = Spring / SU = Summer      \*course has a prerequisite/corequisite that must be met

## 32-Credit "Basic Program"

**\*based on ALEKS score of 76% or higher**

Semester 1			
Course	Title	Term	Credits
MAT 211*	Calculus I	FA/SP/SU	5
ENG 105	Composition I	FA/SP/SU	3
CHM 165*	Chemistry I	FA/SP/SU	4
EGR 100	Engineering Orientation	FA/SP/SU	1
SDV 171	Library Instruction	FA/SP/SU	1
SDV 108	(Optional) College Experience	FA/SP/SU	1
<b>Total Credits</b>			<b>15</b>

Semester 2			
Course	Title	Term	Credits
MAT 217*	Calculus II	FA/SP/SU	5
ENG 106*	Composition II	FA/SP/SU	3
PHY 213*	Physics I	FA/SP/SU	6
EGR 161*	Engineering Computations	FA/SP	2
<i>Engineering Programming Option** (pick 1 of 3):</i>			
EGR 151*	Engineering Visual Basic	FA/SP	2
EGR 152	Engineering MATLAB	SP	2
EGR 155*	Engineering C/C++	FA	2
<b>Total Credits</b>			<b>18</b>

## 64-credit Associate in Science with Pre-Engineering Concentration

**\*based on ALEKS score of 76% or higher**

Term 1			
Course	Title	Term	Credits
MAT 211*	Calculus I	FA/SP/SU	5
ENG 105	Composition I	FA/SP/SU	3
CHM 165*	Chemistry I	FA/SP/SU	4
<i>Social &amp; Behavior Sciences Choice</i>		FA/SP/SU	3 - 4
EGR 100	Engineering Orientation	FA/SP/SU	1
SDV 108	The College Experience	FA/SP/SU	1
<b>Total Credits</b>			<b>17 - 18</b>

Term 2			
Course	Title	Term	Credits
MAT 217*	Calculus II	FA/SP/SU	5
PHY 213*	Physics I	FA/SP/SU	6
EGR 161*	Engineering Computations	FA/SP	2
<i>Engineering Programming Option** (pick 1 of 3):</i>			
EGR 151*	Engineering Visual Basic	FA/SP	2
EGR 152	Engineering MATLAB	SP	2
EGR 155*	Engineering C/C++	FA	2
SDV 171	Library Instruction	FA/SP/SU	1
<b>Total Credits</b>			<b>16</b>

Term 3			
Course	Title	Term	Credits
<i>Math/EGR Option (pick 1 of 3):</i>			
MAT 219*	Calculus III	FA/SP/SU	4
MAT 227*	Differential Equations	FA/SP/SU	4
EGR 166*	Engineering Graphics	FA	4
PHY 223*	Physics II	FA/SP/SU	6
ENG 106*	Composition II	FA/SP/SU	3
<i>Social &amp; Behavior Sciences Choice</i>		FA/SP/SU	3 - 4
<b>Total Credits</b>			<b>16 - 17</b>

Term 4			
Course	Title	Term	Credits
<i>Math/EGR Option (pick 1 of 3):</i>			
MAT 219*	Calculus III	FA/SP/SU	4
MAT 227*	Differential Equations	FA/SP/SU	4
EGR 166*	Engineering Graphics	FA	4
<i>Humanities Choice</i>		FA/SP/SU	3 - 4
<i>DMACC Elective (Diversity)</i>		FA/SP/SU	3
SPC 101	Oral Communications	FA/SP/SU	3
<b>Total Credits</b>			<b>13-14</b>

**\*\*Engineering Programming Note:** EGR 151, 152 & 155 are offered either in the FA or SP term and are recommended to be taken concurrently with EGR161. Students are encouraged to select the course which best fits your particular engineering career goal. See your academic advisor or pathway navigator for more information.

**Any questions? Please visit [www.dmacc.edu/engineering](http://www.dmacc.edu/engineering) for more information  
or schedule an appointment with your Academic Advisor or Pre-Engineering Pathway Navigator**