

DMACC

**Pre-Engineering Course Options
Requirements by ISU Engineering Major**

This information is to help with course planning based on the 2016-2017 catalog year.
Please see your academic advisor and institutional websites for most up to date information.

DMACC COURSE

ISU College of Engineering Required Courses BY MAJOR

DMACC COURSE		Term(s) Offered	Credits	Aerospace	Agricultural	Biological Systems	Chemical	Civil/ Environmental	Computer	Construction	Electrical	Industrial	Materials	Mechanical	Software	
Required for ISU's "Basic Program"	EGR 100	Engineering Orientation	FA/SP/SU	1	x	x	x	x	x	x	x	x	x	x	x	
	EGR 161*	Engineering Computations	FA/SP	2	x	x	x	x	x	x	x	x	x	x	x	
	EGR 151*	Engineering Visual Basic**	FA/SP	2	accepted	accepted	accepted	accepted	encouraged	accepted	encouraged	accepted	encouraged	encouraged	accepted	accepted
	EGR 152	Engineering MATLAB**	SP	2	encouraged	accepted	accepted	encouraged	accepted	accepted	accepted	encouraged	accepted	accepted	encouraged	accepted
	EGR 155*	Engineering C/C++**	FA	2	accepted	accepted	accepted	accepted	accepted	encouraged	accepted	accepted	accepted	accepted	accepted	encouraged
	MAT 211*	Calculus I	FA/SP/SU	5	x	x	x	x	x	x	x	x	x	x	x	x
	MAT 217*	Calculus II	FA/SP/SU	5	x	x	x	x	x	x	x	x	x	x	x	x
	CHM 165*	Chemistry I	FA/SP/SU	4	x	x	x	x	x	x	x	x	x	x	x	x
	PHY 213*	Physics I	FA/SP/SU	6	x	x	x	x	x	x	x	x	x	x	x	x
	ENG 105	Composition I	FA/SP/SU	3	x	x	x	x	x	x	x	x	x	x	x	x
	ENG 106*	Composition II	FA/SP/SU	3	x	x	x	x	x	x	x	x	x	x	x	x
	SDV 171	Library Instruction	FA/SP/SU	1	x	x	x	x	x	x	x	x	x	x	x	x
	EGR 166*	Engineering Graphics	FA	4		x	x		x		x				x	
	EGR 180*	Engineering Statics	SU	3	x	x	x		x		x		x	x	x	
	MAT 219*	Calculus III	FA/SP/SU	4	x			x	x	x	x	x	x	x	x	encouraged
	MAT 227*	Differential Equations	FA/SP/SU	4	x	x	x	x	x	x	x	x	x	x	x	x
	CHM 175*	Chemistry II	FA/SP/SU	4				x	x-Envr					x		
	CHM 263*	Organic Chemistry I	FA/SP/SU	5			x	x								
	CHM 273*	Organic Chemistry II	SP	5			x	x								
	PHY 223*	Physics II	FA/SP/SU	6	x	x	x	x		x	x	x	x	x	x	
BIO 112	Biology I†	FA/SP/SU	4		x	†		x-Envr								
Bio 113	Biology II†	FA/SP/SU	4		†	x		†								
SPC 101	Public Speaking	FA/SP/SU	3		accepted	accepted		x				x		accepted	x	
ECON 130 or 120	Economics	FA/SP/SU	3	accepted	accepted	accepted	accepted	accepted	accepted	x	accepted	accepted	accepted	x	encouraged	

Term Offered: FA = Fall / SP = Spring / SU = Summer

*course has a prerequisite/corequisite that must be met

**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 if possible but any of the three courses will be accepted.

† DMACC BIO 112 & BIO 113 must BOTH be completed in order to transfer as credit for ISU Biol 211 and Biol 212

**Please visit www.dmacc.edu/engineering for more information
or schedule an appointment with your Academic Advisor or Pre-Engineering Pathway Navigator**