

# AS Engineering

The following provides information regarding courses required to complete this major at Virginia Western for planning purposes only. Please see the Academic Catalog and full disclosure statement at <http://catalog.virginiawestern.edu>.

**This is a restricted admissions program. Students must successfully complete or place out of all courses marked with an asterisk (\*) below prior to enrolling in this program.**

Completed	Course	Course Title	Credit	Requisite	Term Offered
	SDV 101	Orientation to Engineering & Mathematics	2		F, Sp
	MTE 1	Operations with Positive Fractions	**	Math Placement	F, Sp, Su
	MTE 2	Operations with Positive Decimals and Percents	**	MTE 1	F, Sp, Su
	MTE 3	Algebra Basics	**	MTE 2	F, Sp, Su
	MTE 4	First Degree Equations and Inequalities in One Variable	**	MTE 3	F, Sp, Su
	MTE 5	Linear Equations, Inequalities and Systems of Linear Equations in Two Variables	**	MTE 4	F, Sp, Su
	MTE 6	Exponents, Factoring and Polynomial Equations	**	MTE 5	F, Sp, Su
	MTE 7	Rational Expressions and Equations	**	MTE 6	F, Sp, Su
	MTE 8	Rational Exponents and Radicals	**	MTE 7	F, Sp, Su
	MTE 9	Functions, Quadratic Equations and Parabolas	**	MTE 8	F, Sp, Su
	ENG 111	College Composition I	3	English Placement	F, Sp, Su
	MTH 263	Calculus I	4	MTH 167 - C	F, Sp, Su
	EGR 120	Introduction to Engineering	2	Pre: MTH 167 Co: MTH 263	F, Sp, Su
	EGR 126	Computer Programming for Engineers	3	MTE 1-9	F, Sp, Su
	HIS 121 <b>OR</b> ECO 201	United States History I  Principles of Macroeconomics	3		F, Sp, Su  F, Sp
	EGR 124	Introduction to Engineering and Engineering Methods	3	EGR 120	F, Sp, Su
	EGR 140	Engineering Mechanics - Statics	3	Co: MTH 263	F, Sp, Su
	ENG 112	College Composition II	3	ENG 111	F, Sp, Su
	MTH 264	Calculus II	4	MTH 263 - C	F, Sp, Su
	CHM 111	General Chemistry I	4	MTE 1-9 and English Placement	F, Sp, Su
	MTH 266	Linear Algebra	3	MTH 263 - B or MTH 264 - C	F, Sp
	MTH 265	Calculus III	4	MTH 264 - C	F, Sp
	PHY 241	University Physics I	4	MTH 263	F, Sp
	EGR ELEC	EGR 245, EGR 246, EGR 206, EGR 251 or EGR 252	3		
	MUS 122	Music Appreciation II	3		Sp
	MTH 267	Differential Equations	3	MTH 264 - C	F, Sp
	PHY 242	University Physics II	4	MTH 264 PHY 241	Sp, Su
	EGR ELEC	EGR 245, EGR 246, EGR 206, EGR 251 or EGR 252	3		
	ART 101 <b>OR</b> REL 200	History and Appreciation of Art I  Survey of the Old Testament	3		F, Sp  F, Sp
	HIS 122 <b>OR</b> ECO 202	United States History II  Principles of Microeconomics	3		F, Sp, Su  F, Sp

**\*\*MTE classes are developmental courses. Students may place out of these classes based on various measures, including high school GPA, standardized test scores, or placement testing.**

**Total program credits: 67**