

## AS Engineering: Computer Science (831-01)

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 and 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	**	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
*	MTH 167	Pre-Calculus with Trigonometry	5	MTE 1-9	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
	CSC 205	Computer Organization	4		F
	EGR 121	Foundations of Engineering	2	Pre: MTH 167 - C Co: MTH 263	F, Sp
	ECO 201	Principles of Macroeconomics	3		F, Sp, Su
	ECO 202	Principles of Microeconomics			F, Sp, Su
	EGR 122	Engineering Design	3	EGR 121	
	ENG 112	College Composition II	3	ENG 111	F, Sp, Su
	MTH 264	Calculus II	4	MTH 263 - C	F, Sp, Su
	HIS 121	United States History I	3		F, Sp, Su
	HIS 122	United States History II			F, Sp, Su
	EGR 126	Computer Programming for Engineers	3	MTE 1-9	F, Sp, Su
	CSC 201	Computer Science I	4	Co: MTH 263	F
	MTH 265	Calculus III	4	MTH 264 "C" or better	F, Sp
	PHY 241	University Physics I	4	Pre: MTH 263 Co: MTH 264	F, Sp
	MTH 266	Linear Algebra	3	MTH 263 - B or MTH 264 - C	F, Sp
	ART 101	History and Appreciation of Art I	3		F, Sp, Su
	PHY 242	University Physics II	4	PHY 241	Sp, Su
	MUS 121	Music in Society	3		F, Sp
	MTH 288	Discrete Mathematics	3	MTH 263 - C	Sp
	CHM 111	General Chemistry I	4	MTE 1-9; English Placement	F, Sp, Su
	CSC 202	Computer Science II	4	Pre: CSC 201 or ITP 120 Pre/CO: MTH 264	Sp
<p>**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.</p>				<b>Total program credits: 70</b>	