

AAS Mechatronics Systems Engineering Technology

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.viriniawestern.edu>.

Completed	Course	Course Title	Credit	Requisite	Term Offered
	SDV 100	College Success Skills	1		F, Sp, Su
	SDV 101	Orientation to Engineering and Mathematics	1		F, Sp, Su
	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
	ENG 111	College Composition I	3	English Placement	F, Sp, Su
	MTH 115	Technical Mathematics I	3	MTE 1-6	F, Sp
	MTH 167	Pre-Calculus with Trigonometry		MTE 1-9	F, Sp, Su
	EGR 216	Computer Methods in Engineering and Technology	3	Co: MTH 115	F, Sp
	ETR 113	DC and AC Fundamentals I	4	MTE 1-3	F, Sp
	CAD 111	Technical Drafting I	3	MTE 1-3	F, Sp
	MTH 116	Technical Mathematics II	3	MTE 1-6	Sp
	MTH 263	Calculus I		MTH 167 - C	F, Sp, Su
	EGR 105	Introduction to Problem Solving in Technology	1		Sp
	CAD 241	Parametric Solid Modeling I	3	CAD 111 or DRF 201	F, Sp
	MEC 113	Materials and Processes of Industry	3		Sp
	MEC 131	Mechanics I - Statics for Engineering Technology	3	Pre: MTH 115 Co: MTH 116	Sp, Su
	MEC 162	Applied Hydraulics and Pneumatics	3		F, Sp
	ETR 237	Industrial Electronics I	4	ETR 113	F
	IND 250	Introduction to Basic Computer Integrated Manufacturing	3		F
	MEC 132	Mechanics II - Strength of Materials for Engineering Technology	3	MEC 131	F, Su
	PHY 201	General College Physics I	4	MTH 115 or MTH 161 or MTH 167 and English Placement	F, Sp, Su
	HIS 111	History of World Civilization I	3		F, Sp, Su
	HIS 121	United States History I			F, Sp, Su
	ECO 201	Principles of Macroeconomics			F, Sp
	ART 101	History and Appreciation of Art I	3		F, Sp
	MUS 122	Music Appreciation II			Sp
	PHI 220	Ethics			F, Sp, Su
	IND 230	Applied Quality Control	3		Sp
	IND 251	Automated Manufacturing Systems I	4		Sp
	SAF 127	Industrial Safety	2		F, Sp, Su
	ETR 238	Industrial Electronics II	3	ETR 237	Sp
	IND 290	Coordinated Internship in Industrial Engineering			F, Sp, Su

Total program credits: 66

**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.

