

AAS Mechatronics Systems Engineering Technology (736)

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>.

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 Two Variables	**	MTE 4	F, Sp, Su
	MTE 6 Exponents, Factoring and Polynomial Equations	**	MTE 5	F, Sp, Su
*	MTH 111 Basic Technical Mathematics	3	Pre: MTE 1-3 or Co: MCR 1 MTE 1-9	F, Sp
	MTH 167 OR Pre-Calculus with Trigonometry	5		F, Sp, Su
	MEC 113 Materials and Processes of Industry	3		Sp
	ETR 113 DC and AC Fundamentals I	4	MTE 1-3	F, Sp
	SAF 127 Industrial Safety	2		F, Sp, Su
	CAD 111 Technical Drafting I	3	MTE 1-3	F, Sp, Su
	MEC 162 Applied Hydraulics and Pneumatics	3		F, Sp
	ETR 237 Industrial Electronics I	4	ETR 113	F, Sp
*	MTH 131 Technical Mathematics	3	MTE 1-6 MTH 167 - C	F, Sp
	MTH 263 OR Calculus I	4		F, Sp, Su
	EGR 216 Computer Methods in Engineering and Technology	3		F, Sp, Su
	CAD 241 Parametric Solid Modeling I	3	CAD 111	F, Sp
	IND 250 Introduction to Basic Computer Integrated Manufacturing	3	ETR 113	F
	ENG 111 College Composition I	3	English Placement	F, Sp, Su
	MEC 131 Mechanics I - Statics for Engineering Technology	3	Pre: MTH 111 Co: MTH 131	F
	ETR 238 Industrial Electronics II	3	ETR 237	F
	PHY 201 General College Physics I	4	MTH 131; English Placement	F, Sp, Su
	MEC 132 Mechanics II - Strength of Materials for Engineering Technology	3	MEC 131	Sp
	IND 230 Applied Quality Control	3	EGR 216	Sp
	IND 251 Automated Manufacturing Systems I	3	IND 250	Sp
	HUM/FA ART 101, ART 102, CST 130, MUS 121, PHI 101, PHI 220, or REL 230	3		
	ETR 286 Principles and Applications of Robotics	3	ETR 113	Sp
	OR			
	CAD 298 Seminar and Project in Computer Aided Drafting and Design	3	Pre: CAD 111 Co: CAD 241 CAD 242	Sp
	SOC SCI ECO 201, GEO 210, HIS 111, HIS 112, PLS 135, PSY 200, or SOC 200	3		F, Sp, Su
*Choice of math course depends on the student's intentions regarding transfer. See your advisor for additional information.		Total program credits: 67		
**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.				