

AAS MSET: Electrical Engineering Technology (736-02)

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	F, Sp
	OR			
	MTH 167 Pre-Calculus with Trigonometry	5	MTE 1-9	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
	ETR 114 DC and AC Fundamentals II	4	ETR 113	Sp
	ETR 237 Industrial Electronics I	4	ETR 113	F, Sp
*	MTH 131 Technical Mathematics	3	MTE 1-6	F, Sp
	OR			
	MTH 263 Calculus I	4	MTH 167 - C	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
	ETR 280 Introduction to Digital Logic Circuits and Computers	4	ETR 113	F
	ETR 238 Industrial Electronics II	3	ETR 237	F
	PHY 201 General College Physics I	4	MTH 131; English Placement	F, Sp, Su
	ITN 154 Network Fundamentals, Router Basics, and Configuration (ICND1) - Cisco	4		F, Sp, Su
	ELE 298 Seminar and Project in Electrical Technology	3	ETR 114, ETR 237, ETR 280	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
	SOC SCI ECO 201, GEO 210, HIS 111, HIS 112, PLS 135, PSY 200 or SOC 200	3		F, Sp, Su
<p>*Choice of math course depends on the student's intentions regarding transfer. See your advisor for additional information.</p> <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>				Total program credits: 67