

AAS MSET: Design Engineering Technology (736-01)

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>.

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
	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
*	MTH 131	Technical Mathematics	3	MTE 1-6	F, Sp
	MTH 263	Calculus I	4	MTH 167 - C	F, Sp, Su
	ETR 237	Industrial Electronics I	4	ETR 113	F, Sp
	MEC 119	Introduction to Basic CNC and CAM	3	MTE 1-3	Sp
	EGR 216	Computer Methods in Engineering and Technology	3		F, Sp, Su
	CAD 241	Parametric Solid Modeling I	3	CAD 111	F, Sp
	CAD 226	Computer Aided Machining	3	CAD 111	Sp
	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	Sp, Su
	MEC 211	Machine Design I	4	MEC 132	Sp
	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	F, Sp
	IND 230	Applied Quality Control	3	EGR 216	Sp
	CAD 242	Parametric Solid Modeling II	3	Pre: CAD 111 Co: CAD 241	F, Sp
	HUM/FA	ART 101, ART 102, CST 130, MUS 121, MUS 122, PHI 101 or REL 230	3		
	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 211, 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.

**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: 68