

Associate Degree

Name: \_\_\_\_\_



School of Polytechnic

	Sem	Gr	Cr	Course	
1	_____	_____	3	MET 10400*	Technical Graphics Communications
	_____	_____	3	IET 10500*	Industrial Management
	_____	_____	3	ET 10600*	Intro. to Engineering Technology
	_____	_____	3	ENGL 13100*	Reading, Writing, & Inquiry I
	_____	_____	5	MA 15900*	Algebra & Trig. (or MA 15300 & 15400)
2	_____	_____	3	COM 11400*	Fundamentals of Speech Comm.
	_____	_____	3	MATR 18000*	Materials & Processes (was MET 18000)
	_____	_____	3	ET 19000*	Statics
	_____	_____	4	PHYS 21800*	General Physics I
3	_____	_____	3	CHM 11100*	General Chemistry
	_____	_____	3	ET 20000*	Strength of Materials
	_____	_____	3	IET 20400	Tech. Maintaining Quality
	_____	_____	3	MET 22300*	Computer-Aided Modeling & Design
	_____	_____	3	_____	Gen. Ed. Elective, Area B6 ⌘
4	_____	_____	3	ECET 11400*	Foundations of Programming (or ITC 130)
	_____	_____	3	IET 20500*	Statistics for ET (or STAT 301)
	_____	_____	3	OLS 25200*	Hum. Rel. Org. (or ECON E200)
	_____	_____	3	MET 33500*	Basic Machining
	_____	_____	3	_____	Gen. Ed. Elective, Area B7 ⌘

All courses require a grade of C- or better for graduation

\* A grade of C- or better is required before taking the next course in the prerequisite sequence.

⌘ Must meet all Outcomes for Areas B6 and B7 – see back for complete list.

Bachelor's Degree

5	_____	_____	4	PHYS 21900*	General Physics II
	_____	_____	4	MA 22700*	Calculus for Technology I
	_____	_____	3	MET 33000	Introduction to Fluid Power
	_____	_____	3	MATR 38100	Engineering Materials (was MET 38100)
6	_____	_____	3	ECET 21100*	Electrical Machines & Controls
	_____	_____	3	MET 21600	Machine Elements
	_____	_____	3	ENGL 23401*	Technical Report Writing
	_____	_____	3	MET 31200	Dynamics & Mechanisms
	_____	_____	3	MET Technical Selective (see back page)	
7	_____	_____	3	IET 35000	Engineering Economy
	_____	_____	3	MET 30000	Applied Thermodynamics
	_____	_____	3	MET 35000	Applied Fluid Mechanics
	_____	_____	3	MET 37000	Intro. to Heat Transfer
	_____	_____	3	_____	Computer Prog. Elective**
8	_____	_____	3	MET 48700	Instrumentation & Auto. Control
	_____	_____	3	ENGL 42101	Tech. Writing Projects
	_____	_____	4	MET 49400	Senior Design & Analysis
	_____	_____	3	_____	Technical Elective (see back page)
	_____	_____	3	_____	Technical Elective (see back page)

These **Computer Programming Electives** are recommended because the prerequisites are included within the MET degree program. If you encounter a prerequisite error when you try to enroll, please ask an MET advisor for help.

CPET 19000	Problem Solving with MATLAB [prereq. MA 15300; ECET 11400 or CS 11400]
ECET 26400	C Programming [prereq. MA 15400; CPET 19000 (waived for MET students)]
ECET 36100	Intro. PLC (OK for either Computer or Tech. elective) [prereq. ECET 20400 or ECET 20700 (waived for MET students)]
CS 20300	Advanced Visual Basic [prereq. ECET 11400 or CS 11400]
CS 16000	Intro. Computer Science I (4 credits & significantly more work than the other options) [MA 15300]

The **MET Technical Selective** can be satisfied with any of these classes:

MET 24700	CAD Tool & Fixture Design [prereq. MET 22300; MET 33500; ET 20000]
MET 34700	Programming of Automation Systems [prereq. ECET 11400; MET 10400; MET 33500; coreq. ENGL 23401]
MET 36400	Basic Tooling for Machining [prereq. MET 10400, MATR 18000]
MET 44000	Advanced CNC Machining [prereq. MET 22300; MET 33500]
MATR 22000	Materials Characterization [prereq. MATR 18000; CHM 11100]
MATR 23000	Intro. to Polymers [prereq. MATR 18000; CHM 11100]
MATR 24000	Steelmaking [prereq. MATR 18000; CHM 11100]
MATR 31000	Failure Analysis [prereq. MATR 22000]
MATR 32000	Biomedical Materials [prereq. MATR 18000; CHM 11100]
MATR 34000	Corrosion Control [prereq. MATR 18000; CHM 11100]
MATR 35000	Stainless Steels [prereq. MATR 18000]
MATR 36000	Lightweight Materials [prereq. MATR 18000]

The two **Technical Electives** can be satisfied with any of the classes listed below, or a different technical course approved by an MET advisor.

---	Any of the MET Technical Selectives
IET 22400	Production Planning and Control [prereq. MA 15400 or 15900]
IET 25700	Ergonomics [prereq. ET 10600]
IET 26700	Work Methods Design [prereq. IET 10500]
IET 30400	Advanced Metrology [prereq. IET 20400; MET 22300]
IET 31000	Plant Layout [prereq. MET 10400; MA 15400 or 15900]
IET 36200	Technological Optimization [prereq. MA 15400 or 15900]
IET 36900	Manufacturing Simulation [prereq. IET 20500 or STAT 30100]
IET 40100	Manufacturing Process Planning [prereq. MET 33500]
IET 45400	Stat. Process Control [prereq. IET 20400; IET 20500 or STAT 30100]
IET 47800	Lean Manufacturing and Design [prereq. IET 22400]

**Approved Area B6 General Education courses**

AD 10101	Art Appreciation (was FINA H101)	MUSC 10500	Trad. In World Music (was MUS Z105)
AD 11100	History of Art I (was FINA H111)	MUSC 20103	History of Rock & Roll (was MUS Z201)
AD 11201	History of Art II (was FINA H112)	PHIL 11000	Intro. to Philosophy
COM 21000	Debating Public Issues	PHIL 11100	Ethics
COM 24800	Intro. to Media Criticism	PHIL 11101	Contemporary Moral Problems
ENGL 10101	Western World Masterpieces I (was ENG L101)	PHIL 24000	Social & Political Philosophy
ENGL 10201	Literary Interpretation (was ENG L102)	PHIL 30100	History of Ancient Philosophy
ENGL 25001	American Lit. before 1865 (was ENG L250)	PHIL 30200	History of Medieval Philosophy
ENGL 25100	American Lit. since 1865	PHIL 30300	History of Modern Philosophy
FOLK 10100	Intro. to Folklore (was FOLK F101)	PHIL 30400	19 <sup>th</sup> Century Philosophy
FOLK 11100	Intro. to World Folk Music (was FOLK F111)	PHIL 30500	Phil. Theories of Feminism
FVS 10100	Introduction to Film (was FILM K101)	PHIL 31200	Medical Ethics
GER 37100	Sp. Topics in German. Studies (was GER E371)	PHIL 32700	Environmental Ethics
HIST 10501	American History I (was HIST H105)	PHIL 32800	Ethics & Animals
HIST 10601	American History II (was HIST H106)	REL 23000	Religions of the East
HIST 11300	History Western Civ. I (was HIST H113)	REL 23100	Religions of the West
HIST 11400	History Western Civ. II (was HIST H114)	REL 30100	Islam
HIST 20101	Russian Civilization I (was HIST H201)	SPAN 27500	Hispanic Culture (was SPAN S275)
HIST 23200	The World in the 20 <sup>th</sup> Century (was HIST H232)	THTR 20100	Theatre Appreciation
MUSC 10101	Music for the Listener (was MUS Z101)	WOST 22500	Gender, Sexuality, Pop. Culture (was WOST W225)

**Approved Area B7 General Education courses**

AD 10801	Intro. to Drawing for Nonmajors (was FINA N108)	DANC 39000	Introduction to Dance
AD 13300	Metalsmithing for Nonmajors (was FINA P133)	ENGL 10302	Introductory Creative Writing (was ENG W103)
AD 16500	Ceramics for Nonmajors (was FINA S165)	ENGL 20301	Creative Writing (was ENG W203)
AD 23900	Painting for Nonmajors (was FINA S239)	MUSC 15300	Intro. to Music Therapy (was MUS L153)
ARET 12300	Digital Graphics for Built Envir. I	MUSC 14000	Intro. to Musical Expression (was MUS Z140)
ARET 22300	Digital Graphics for Built Envir. II	THTR 13400	Fundamentals of Performance
COM 21001	Visual Communication (was JOUR J210)		