

Department of Technology				
TECHNOLOGY & ENGINEERING EDUCATION				
Catalog 2016- 2017				
Courses in the Major	Hours	Pre-requisites	F/S/Sum	Transfer Class
<i>General Education:</i>				
PHY 105 Fundamentals of Physics	4	None	F/S	
<i>Technology Education Core:</i>				
TEC 101 Introduction to Teaching Technology	3	None	F	
TEC 111 Fundamentals of Power Technology	3	None	F/S	
TEC 116 Introctution to Technical Drawing and Constaint Based Solid Modeling	3	None	F/S	
TEC 120 Introduction to Building Construction	3	None	F/S	
TEC 130 Introduction to Manufacturing Processes	3	None	F/S	
TEC 150 Graphic Communications Technology	3	None	F/S	
TEC 216 Constraint Based Solid Modeling and Production Drawings	3	TEC 116	F/S	
TEC 243 Computer Networking Systems	3	None	F/S	
TEC 303 Engineering Design	3	TEC 216, MAT 108, PHY 105	F	
TEC 304 Medical, Agricultural, & Bio-Related Technology	3	TEC 101	S	
TEC 305 Teaching Transportation, Energy, and Power Technology	3	TEC 101, TEC 111, TEC 116	F	
MAT 108 Trigonometry	2	"C" or better in Math 119 or math plcmt	F/S	
<i>Professional Education Courses:</i>				
TCH 212 The Teaching Profession in Secondary Schools	2	T&EE Major, 2.5 GPA, 45 hours	F/S	
TCH 216 Principles and Practices for Teaching and Learning in Secondary Schools	3	As Above, "C" in TCH 212 & PSY 215	F/S	
TCH 219 Integrating Multiple Literacies and Technology Across The Secondary Curriculum	3	"C" in TCH 216 & ENG 101 & COM 110	F/S	
EAF 228 Social Foundations OR	3	60 hrs completed	F/S	
EAF 231 Intro to Philosophy of Education OR		60 hrs completed	F/S	
EAF 235 Historical Foundations		60 hrs completed	F/S	
PSY 215 Educational Psychology	3	PSY 110 or 111	F/S	
TEC 307 Competencies for Teaching	4	TEC 305 and TCH 216 or concur reg.	S	
STT 399.33 Student Teaching	12		F/S	
<i>Technology Education Electives (9 hrs req)</i>				
<i>The following are recommendations but do not take into account pre-requisite courses</i>				
<i>Any Courses from TEC will count</i>				
<i>Manufacturing Courses:</i>				
TEC 233 CNC and Machining	3	TEC 111, 130, TEC 216 or concur reg	F/S	
TEC 234 Robotic Systems Integration	3	TEC 111 and 151	F	
TEC 240 Electric Circuits and Machines	3	TEC 111 or TEC 143 or concur registr	F/S	
TEC 244 Digital Electronics	3	MAT 120	F/S	
<i>Construction Courses:</i>				
TEC 121 Construction Methods	2	None	F/S	
TEC 222 Mechanical and Electrical Systems for Buildings	3	TEC 120, Math 120	F/S	
TEC 223 Surveying and Building Layout	3	TEC 120, Math 120	F/S	
TEC 224 Soils and Foundations	3	TEC 120, TEC 121	F/S	
TEC 292 Construction Materials Technology	3	MAT 120 or concurrent registration	F/S	
<i>Drafting & Design Courses:</i>				
TEC 217 Building Information Modeling	3	TEC 117	F/S	
TEC 317 Computer Aided Rendering & Animation	3	TEC 116 or 217	F	
<i>Graphic Communication Courses:</i>				
TEC 250 Graphic Media Composition	3	TEC 150	F	
TEC 253 Image Capture and Editing	3	TEC 150	F	
TEC 283 Information and Imaging Technologies	3	"C" or better in TEC 151	F/S	
TEC 351 Advanced Image Transfer Systems	3	TEC 250	F	
<i>Electronics Related Courses:</i>				
TEC 240 Electric Circuits and Machines	3	TEC 111 or TEC 143 or concur registr	F/S	
TEC 244 Digital Electronics	3	MAT 120	F/S	
<i>Technology Education - Related Courses:</i>				
TEC 275 Technology and Quality of Life	3	MATH 113, 120, 130 or 145	F	
TEC 306 Coordination Techniques of Career and Technical Cooperative Programs	3	None	SUM	
TEC 310 STEM Education Foundations	3	None	SUM	
<i>Middle School Endorsement Also Requires:</i>				
PSY 302 Adolescent Development	3	PSY 110 or 111, PSY 215		
TCH 233 Teaching & Learning in Middle Level Education	3	233.01 - 2.0 GPA, "C" ENG 101 & COM		