

TECHNOLOGY, ASSOCIATE OF APPLIED SCIENCE (A.A.S.)

The AAS degree program in Technology is accredited by the Association of Technology, Management, and Applied Engineering (ATMAE).

Program Requirements

CIP Code: 15.0612

Code	Title	Hours
University Graduation Requirements		
General Education		
Element 1A		3
Element 1B		3
Element 1C		3
MAT 112A & MAT 112B	Algebra: Polynomials and Algebra: Functions & Matrices (or higher) (Element 2)	3
Element 3A or 3B		3
ECO 120 or ECO 230	Economic Reasoning and Issues (Element 5B) Fundamentals of Microeconomics	3
<i>Student Success Seminar</i>		
SCO 100	Student Success Seminar (waived for transfers with 30+ hrs.)	1
Major Requirements		
<i>Concentrations</i>		
Students must select one of the following Concentrations:		40-41
Applied Engineering (AE)		
Computer Electronics (CE)		
<i>Free Electives</i>		
Choose from 0-1 hour of electives		0-1
<i>Exit Requirements</i>		
Students must take an assessment examination before graduation. An exam fee is required.		
Choose from one of the following:		
AEM 367	Comp Exam for AAS in Technology, Applied Engineering	
AEM 467	Comprehensive Exam for BS in ETM (AE)	
NET 367A	Exit Exam for AAS in Tech, with Computer Electronics (CE) (CR only, no hours)	
Total Hours		60

Concentration

Applied Engineering (AE)

Code	Title	Hours
Concentration Courses		
AEM 195	Computer Aided Drafting (Applied Engineering (AE))	3
AEM 201	Metallic Material Processes	3
AEM 202	Introduction to Quality	3
AEM 301 or AEM 392	Non-Metallic Material Processes Computer Aided Machine Drawing	3
AEM 308	Methods of Lean Operations	3

AEM 330	Material Testing and Metrology	3
AEM 332	Process Control and Auditing	3
Choose from one of the following:		3
AEM 336	Reliability and Sampling	
AEM 352	Robotics and Automated Systems	
AEM 383	CAD/CAM Integration	
AEM 371 or AEM 390	Hydraulics and Pneumatics 3-D Parametric Solid Modeling	3
EET 251	Electricity and Electronics	3
Choose from one of the following:		4-5
CHE 101 & 101L	Introductory Chemistry and Introductory Chemistry Lab	
CHE 111 & 111L	General Chemistry and General Chemistry Lab I	
PHY 131	College Physics I	
MAT 120	Trigonometry	3
STA 215 or STA 270	Introduction to Statistical Reasoning Applied Statistics	3-4
Total Hours		40-42

Computer Electronics

Code	Title	Hours
Concentration Courses		
Choose from one of the following:		3
AEM 352	Robotics and Automated Systems	
EET 253	Microprocessor Control Systems	
EET 351	Programmable Logic Controllers	
Choose from one of the following:		3
CSC 160	Introduction to Web Programming (or higher)	
CIS 215	Introduction to Business Programming (or higher)	
EET 251	Electricity and Electronics	3
EET 252	Digital Electronics	3
EET 257	Electronic Devices and Circuits	3
NET 302	PC Troubleshooting & Construction	3
NET 303	LANs & PC Communications	3
NET 343	Network Switches & Routers	3
NET 349	Applied Learning in NET	1
NET 354	Microcomputer & Network Security	3
NET 395 or NET 403	Special Topics in NET Advanced LANs and PC Communication	3
NET 399 or NET 499	Associate Degree Capstone Senior Capstone	3
PHY 101	Conceptual Physics (or higher) (Element 4) ^G	3
TEC 161	Computer Applications in Technology	3
Total Hours		40

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Course satisfies a General Education element.