

# Technology Management

## Technology Management

The Technology Management department is in the [College of Engineering & Technology](#). To find the most up-to-date information from the Technology Management department, visit their website.

[Technology Management department](#)

### DEPARTMENT CHAIR

**ARENDR, Anne** Associate Professor

### FACULTY

**ALIN, Pauli** Assistant Professor

**ARENDR, Anne** Associate Professor

**ILIKCHYAN, Armen** Associate Professor

**KUEHNE, Carolyn** Lecturer

**MERRILL, Kyle** Professional In Residence

**THACKERAY, Susan** Assistant Professor

## Degrees & Programs

### Technology, A.A.S.

#### Requirements

The Associate in Applied Science (AAS) in Technology is designed for individuals seeking to work in a technical area or who have considerable work experience seeking better upward mobility in their professions. Students can receive up to 15 credit hours for extensive work experience, certifications, licenses, or apprenticeships. Additionally, students who earn certifications in many 900+ hour technical programs offered throughout the Utah Technical College system can transfer in their certificate and receive up to 30 hours of academic credit, or almost half the credit required to graduate from the AAS. Students in the AAS pathway will build on their technical education and experience by completing core and elective course options, including experiential portfolio, business computer proficiency, and supervision.

#### Total Program Credits: 63

General Education Requirements:		16 Credits
	<a href="#">ENGL 1010</a> Introduction to Academic Writing	3
or	<a href="#">ENGL 1005</a> Literacies and Composition Across Contexts (5)	
Complete one of the following:		3
	<a href="#">EGDT 1600</a> Technical Math--Algebra (3)	
	<a href="#">MAT 1030</a> Quantitative Reasoning (3)	
	<a href="#">MAT 1035</a> Quantitative Reasoning with Integrated Algebra (6)	
	<a href="#">STAT 1040</a> Introduction to Statistics (3) (Recommended for students intending to continue on to the BS Degree in Technology Management)	
	<a href="#">STAT 1045</a> Introduction to Statistics with Algebra (5)	
	<a href="#">MATH 1050</a> College Algebra (4)	
	<a href="#">MATH 1055</a> College Algebra with Preliminaries (5)	
	<a href="#">MATH 1090</a> College Algebra for Business (3)	
Biology / Physical Science		3

Health / PE / Safety / Environment		1
Humanities / Fine Arts		3
Social/Behavioral Science <sup>1</sup>		3
Discipline Core Requirements:		23 Credits
<a href="#">TECH 1000</a>	Experiential Credit Portfolio Development and Assessment <sup>2</sup>	2
<a href="#">TECH 110R</a>	Technical Experiential Credit	6
<a href="#">TECH 1010</a>	Understanding Technology	3
<a href="#">INFO 2100</a>	Computer Proficiency for Technology Professionals	3
or	<a href="#">IM 2010</a> Business Computer Proficiency (3)	
<a href="#">TECH 2010</a>	Supervision in Technology	3
Technical Area Credits - With advisor approval, students must select a minimum of 6 credits. See catalog for 2-year AAS programs for course selections. <sup>2</sup>		6
Elective Requirements:		24 Credits
Students must select a minimum of 24 credits of electives from the following or other advisor approved course work:		24
<a href="#">TECH 110R</a>	Technical Experiential Credit (1) (Maximum of 10 in addition to the core)	
Additional Technical Area credits as approved by Advisor.		
<a href="#">ANTH 101G</a>	Social/Cultural Anthropology (3)	
<a href="#">BIOL 1010</a>	General Biology (3)	
<a href="#">BIOL 1015</a>	General Biology Laboratory (1)	
<a href="#">BIOL 1070</a>	Heredity (3)	
<a href="#">CHEM 1010</a>	Introduction to Chemistry (3)	
<a href="#">CHEM 1110</a>	Elementary Chemistry for the Health Sciences (4)	
<a href="#">CHEM 1115</a>	Elementary Chemistry Laboratory (1)	
<a href="#">SLSS 1000</a>	University Student Success (3)	
<a href="#">SLSS 1200</a>	The 7 Habits of Highly Effective People (3)	
<a href="#">COMM 1050</a>	Introduction to Communication (3)	
<a href="#">COMM 1500</a>	Introduction to Mass Communication (3)	
<a href="#">COMM 3030</a>	Media Literacy (3)	
<a href="#">ENGR 1000</a>	Introduction to Engineering WE (3)	
<a href="#">ENVT 1110</a>	Introduction to Environmental Management (3)	
<a href="#">ENVT 1510</a>	Hazardous Materials Emergency Response (3)	
<a href="#">GEO 1010</a>	Introduction to Geology (3)	
<a href="#">GEO 1015</a>	Introduction to Geology Laboratory (1)	
<a href="#">MAT 1010</a>	Intermediate Algebra (4)	
<a href="#">PHSC 1000</a>	Survey of Physical Science (3)	
<a href="#">PHYS 1010</a>	Elementary Physics (3)	
<a href="#">PHYS 3800</a>	Energy use on Earth (3)	
<a href="#">TECH 290R</a>	Current Topics in Technology (3)	

# Technology Management

Foreign Language Credits - Students may select up to 10 credits of a foreign language	
Sixteen (16) credits may be satisfied by R473 Matriculation Agreement.	

## Graduation Requirements:

1. Complete a minimum of 63 semester credits.
2. Overall grade point average of 2.0 (C) or above.
3. Residency hours - minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements
5. This degree MAY apply toward the BS in Technology Management, if the majority of course work is in a related technical area, and has been approved by the department to be used toward the BSTM.

Footnote
1- TECH 200G recommended
2- This requirement may be satisfied by R473 Matriculation Agreement. Up to sixteen (16) credits may be satisfied by R473 Matriculation Agreement.

## Advanced Manufacturing, Certificate of Proficiency

### Requirements

The Certificate of Proficiency in Advanced Manufacturing is designed to provide entry-level manufacturing technician skills that are needed in expanding the manufacturing industry in Utah Valley. Although the term "advanced" might be confusing for a program providing entry-level skills, nationally this is the term that is being used. The program focuses on the basic skills used in advanced manufacturing processes expanding across the nation. The components of the certificate will include basic manufacturing skills with hands-on activities on equipment used in local facilities. Graduates of this certificate will have a basic understanding of advanced manufacturing operations with an emphasis on solving problems in the organization. While this program offers an entry-level certification for individuals pursuing a career in manufacturing, it has been designed to enable individuals the opportunity to continually expand and upgrade their applied skills as well as to maintain a thorough mastery of evolving manufacturing technologies.

### Total Program Credits: 18

Discipline Core Requirements:			18 Credits
	TECH 1050	Manufacturing Processes and Systems	3
	TECH 2050	Introduction to Quality Management	3
	TECH 2010	Supervision in Technology	3
	TECH 1000	Experiential Credit Portfolio Development and Assessment (2.0)	
or	TECH 281R	Internship in Technology	1
	IM 2010	Business Computer Proficiency	3
	STAT 1040	Introduction to Statistics	3
or	STAT 1045	Introduction to Statistics with Algebra (5.0)	
or	EGDT 1600	Technical Math--Algebra (3.0)	
	EGDT 1000	Introduction to Engineering Drawing and Technical Design	2

or	EGDT 1071	3 Dimensional Modeling--Solidworks (3.0)	
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## Graduation Requirements:

1. Completion of a minimum of 18 semester credits.
2. Minimum grade of C- required in all courses.
3. Overall grade point average of 2.0 (C) or above.
4. Residency hours: minimum of 5 credit hours through course attendance at UVU.

## Six Sigma Green Belt, Certificate of Proficiency

### Requirements

The Six Sigma Green Belt Certificate at UVU demonstrates knowledge in quality improvement and elimination of waste or defects in production processes. It can be utilized in every aspect of business such as production, human resources, information technology, and customer service. This certificate is built into the curriculum of the Bachelor of Science in Technology Management program. Students who complete this credential have high-demand, industry-recognized skill sets.

### Total Program Credits: 27

Matriculation Requirements:			
1. University Advanced Standing			
Discipline Core Requirements:			27 Credits
	TECH 3000	Introduction to Technology Management	3
	TECH 3010	Creativity Innovation and Change Management (3.0)	
or	ENTR 3170	Entrepreneurship and Opportunity Validation	3
	TECH 3400	Project Management WE	3
	TECH 3700	Materials Management (3.0)	
or	MGMT 3470	Lean Management Systems	3
	TECH 3850	Quality Management in Technology (3.0)	
or	MGMT 3070	Total Quality Management	3
	TECH 4000	Reliability Management	3
	TECH 4400	Advanced Project Management (3.0)	
or	MGMT 3450	Operations Management	3
	TECH 4910	Senior Capstone Project WE	3
Complete one of the following for 3 credits			3
	ACC 2020	Managerial Accounting (3.0)	
	ACC 3000	Financial Managerial and Cost Accounting Concepts (3.0)	
	STAT 1040	Introduction to Statistics (3.0)	
	STAT 1045	Introduction to Statistics with Algebra (5.0)	
	STAT 2040	Principles of Statistics (4.0)	
	STAT 3040	Probability and Statistics for Engineering and the Sciences (3.0)	
	MGMT 2240	Business Calculus (3.0)	
	MGMT 2340	Business Statistics I (3.0)	

**Graduation Requirements:**

1. Completion of a minimum of 27 credits.
2. Overall grade point average of 3.0 (B) or above. Students must complete each course with a grade "B" or higher.
3. Residency hours -- minimum of 7 credit hours through course attendance at UVU.

**Technology Management, Minor****Requirements**

The Technology Management Minor will provide students the opportunity to explore many aspects of technology management, including project management, quality assurance, and creativity, as well as become more aware of the issues surrounding technology. This background will also benefit such students in their quest for employment, since project management and its related skills are highly sought after by employers.

**Total Program Credits: 21**

Discipline Core Requirements:		15 Credits
TECH 3000	Introduction to Technology Management	3
TECH 3400	Project Management WE	3
TECH 3850	Quality Management in Technology	3
TECH 4000	Reliability Management	3
TECH 4420	Organization Information Technologies	3
Elective Requirements:		6 Credits
Select 6 credits from the following:		6
TECH 3010	Creativity Innovation and Change Management (3.0)	
TECH 3700	Materials Management (3.0)	
TECH 405G	Global Ethical and Professional Issues in Technology (3.0)	
TECH 4200	Technology Marketing and Customer Relationship Management (3.0)	
TECH 4400	Advanced Project Management (3.0)	
TECH 497R	Independent Study (1.0)	

**Technology Management, B.S.****Requirements**

The Bachelor of Science in Technology Management has curriculum designed to prepare students who want to develop skills which will enable them to successfully: Manage complex technical projects, manage people within a technical environment, prepare to succeed in an ever changing environment which is reliant on technology, and be on the forefront of innovation and the future of work. Employers are regularly seeking technically savvy individuals who can speak clearly about technical innovations while having the skill set to manage a wide variety of projects and individuals. The BS in TM will prepare this much needed workforce for success. For this degree, students must complete 45 technical credits. Up to 45 technical credits may be transferable from an Associate of Applied Science (AAS), Associate of Science (AS), or individual courses from a regionally accredited institution of higher education in an approved technical area as agreed upon by the Technology Management advisor and department chair.

**Total Program Credits: 120**

Matriculation Requirements:		45 Credits
	Students must complete 45 technical credits. Up to 45 technical credits may be transferable from an Associate of Applied Science (AAS), Associate of Science (AS), or individual courses from a regionally accredited institution of higher education in an approved technical area as agreed upon by the Technology Management advisor and department chair.	45
General Education Requirements:		35 Credits
	ENGL 1010 Introduction to Academic Writing	3
or	ENGH 1005 Literacies and Composition Across Contexts (5)	
	ENGL 2010 Intermediate Writing/Academic Writing and Research	3
	STAT 1040 Introduction to Statistics	3
or	STAT 1045 Introduction to Statistics with Algebra (5)	
Complete one of the following:		3
	HIST 2700 US History to 1877 (3)	
and	HIST 2710 US History since 1877 (3)	
	HIST 1700 American Civilization (3)	
	HIST 1740 US Economic History (3)	
	POLS 1000 American Heritage (3)	
	POLS 1100 American National Government (3)	
Complete the following:		
	PHIL 2050 Ethics and Values	3
	HLTH 1100 Personal Health and Wellness (2)	
or	PES 1097 Fitness for Life	2
Distribution Courses:		
	Biology	3
	Physical Science	3
	Additional Biology or Physical Science	3
	Humanities Distribution	3
	Fine Arts Distribution	3
	Social/Behavioral Science	3
Discipline Core Requirements:		28 Credits
Meet with Technology Management advisor to complete a degree plan prior to enrollment in Technology Management courses.		
	TECH 3000 Introduction to Technology Management	3
	TECH 3010 Creativity Innovation and Change Management	3
or	ENTR 3170 Entrepreneurship and Opportunity Validation (3)	
	TECH 3400 Project Management WE	3
	TECH 3850 Quality Management in Technology	3
	TECH 405G Global Ethical and Professional Issues in Technology	3
	TECH 4420 Organization Information Technologies	3
	TECH 4910 Senior Capstone Project WE	3

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	ACC 3000	Financial Managerial and Cost Accounting Concepts	3
	HR 3430	Introduction to Human Resource Management	3
	TECH 301R	Technology Lecture Series	1
	Business Computer Proficiency		
or	INFO 2100	Computer Proficiency for Technology Professionals (3)	
or	IM 2010	Business Computer Proficiency (3)	
Technical Credit Requirements:			45 Credits
Students must complete 45 technical credits as agreed upon by the Technology Management advisor and department chair			45
Elective Requirements:			12 Credits
Complete 12 credits from the following:			12
	TECH 3700	Materials Management (3)	
	TECH 4000	Reliability Management (3)	
	TECH 4200	Technology Marketing and Customer Relationship Management (3)	
	TECH 4400	Advanced Project Management (3)	
	TECH 481R	Internship (1)	
	TECH 489R	Undergraduate Research in Technology Management (1)	
	TECH 490R	Current Topics in Technology Management (3)	
	TECH 497R	Independent Study (1)	
	LEGL 3000	Business Law (3)	
	ENGL 3300	Collaborative Communication for Technology Professions (3)	
	MGMT 3470	Lean Management Systems (3)	
Up to 6 credits toward Leadership Certification with the Center for the Advancement of Leadership			
Students may select up to 9 credits of other upper division technology related courses with advisor approval.			

### **Graduation Requirements:**

1. Completion of a minimum of 120 semester credits
2. Overall grade point average of 2.0 (C) or above.
3. No grade lower than a C- in any TECH course.
4. Residency hours--minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
5. Completion of General Education (GE) and specified departmental requirements.
6. Successful completion of at least one Global/Intercultural course.