10/14

Application Deadlines:
International applications:
Domestic applications:

Sp/Su Admission – Feb. 15th
Fall Admission **Priority** – Feb 15th
Fall Admissions **Final** – May 10th
Winter Admission-- Sept. 15th

All applications:
Apply at: http://graduatestudies.byu.edu/application-instructions-us

BYU SCHOOL OF TECHNOLOGY

MS in Technology

30 Hour Program

Program Administration

Currently the Graduate Committee includes:

Dr. Derek Hansen, School Graduate Coordinator -- (dlhansen@byu.edu)	(801) 422-7467
Dr. Clifton Farnsworth, Construction Mgt. -- (cfarnsworth@byu.edu)	(801) 422-6494
Dr. Derek Hansen, Information Technology -- (dlhansen@byu.edu)	(801) 422-7467
Dr. Charles Harrell, Manufacturing Systems -- (harrellc@byu.edu)	(801) 422-7858
Dr. Ron Terry, Technology and Engineering Education-- (ron_terry@byu.edu)	(801) 422-4297
Ruth Ann Lowe, Graduate Secretary-- (sotadmin@byu.edu)	(801) 422-7433

Entrance Requirements

- **Accredited BS Degree** in a related field
- Entrance examinations: **GRE general test** Historical GRE scores of prior admits are shown on the graduate school statistics page for the Technology program, which provide an idea of what scores are competitive. For those Manufacturing applicants who wish to apply for the combined MS/MBA program, take the GMAT test (the Written section is required). Construction Management applicants must email or call Clifton Farnsworth to evaluate qualifications prior to making formal application online.
- **Minimum GPA of 3.0**—cumulative (overall) undergraduate degree GPA—(overall GPA from a BYU transcript)
- **TOEF**L (for non-native English speakers) minimum of 580 on written test, or 85 on internet-based test (iBT) with minimum score of **22 in Speaking**, minimum score of **21 in Listening, Reading, and Writing**.
- **Three Letters of Recommendation** (normally done within the on-line application)
- Focused **Letter of Intent**/Personal statement (also done within the on-line application-- please indicate which emphasis area you are applying to).

***NOTE:** *The joint MS/MBA program is admitting students (Manufacturing Systems emphasis only).* This is a limited entrance program. For more information, visit the Interdisciplinary Program web page or contact Spencer Magleby (801) 422-4326.

Program Time Limit

The MS in Technology includes a **Time Limit of Three Years** from the first semester enrolled in coursework to degree completion. Given the accelerated pace of technological change, the faculty of the School believes that this time limit is necessary to assure that the graduate experience is as current as possible.

Program Faculty

The qualified Graduate Faculty in the School of Technology include:

CM Emphasis
Jeffery Campbell
Jay Christofferson
Clifton Farnsworth
Mark Hutchings
Kevin Miller
Justin Weidman

IT Emphasis
Joseph J. Ekstrom
Derek Hansen
Richard Helps
Barry Lunt
Dale Rowe
Chia Chi Teng
Kevin Tew

MFG Systems Emphasis
Andy George
Charles Harrell
Mike Miles

TEE Emphasis
Kip Christensen
Steven Shumway
Ron Terry
Geoff Wright

In addition, several faculty members in Industrial Design hold terminal degrees and are available for service on thesis committees as appropriate. School of Technology policy restricts each graduate faculty member to a maximum of three graduate students for advising and thesis supervision. With this policy in force, the ceiling for active graduate students in the School is projected to be 60-65.

MS in Technology Core Curriculum

The core curriculum for the MS in Technology degree will be common for all students. Two existing classes concentrating on research, critical thinking, philosophical underpinnings, and leadership, along with graduate seminars and a thesis, will encompass the core. The specific core courses are:

TECH 638-Technology Leadership (3 cr.) (offered **Fall only**)

Strategic Planning and Policy Development. Theoretical and practical leadership aspects of conceptual and implementation processes. Articulation and team building among various organizations. Ethics and implementation processes. Articulation and team building among various organizations. Ethics and conflict resolution. Developing and implementing solutions to specials problems; advanced skills/concepts in traditional and emerging technology areas.

TECH 699R-Master's Thesis (1-9 cr., 6 cr. minimum)

Prerequisite: departmental consent. (offered every semester and term)

MS in Technology Tracks:

Building on the common core curriculum, graduate students can choose one of four specialization areas from the programs in the School of Technology. These tracks include Construction Management (CM), Information Technology (IT), Manufacturing Systems (MFG), and Technology & Engineering Education (TEE). The courses for each emphasis area are outlined as follows:

Construction Management			
Course Identification & credit hours	**Course Name and Description**	**Consistency of course offering**	**Lead Professor**
CM 555—3	*Const. Co. Financial Mgt.*	Fall	Staff
CM 600—3	*Trends & Issues in Managing Const.*	Fall	Farnsworth
CM 630—3	*Const. Co. HR*	Winter	Weidman
CM 640—3	*Managing Risk in Const.*	Winter	Farnsworth
CM 650—3	*Const. Co. Development*	Winter	Staff
Approved Electives—6			

Information Technology			
Course Identification & credit hours (take any three courses of the following four, plus six credit hours of electives)	**Course Name and Description**	**Consistency of course offering**	**Lead Professor**
IT 515R & 695R	*Special Topics in IT*	Fall & Winter	Staff
IT 529—3	*Advanced Networking*	Once a year	Ekstrom
IT 548—3	*Mechatronics*	Once a year	Helps
IT 555—3	*Adv. Human Computer Interaction*	Once a year	Hansen
IT 566—3	*Digital Forensics*	Once a year	Rowe
IT 567—3	*Cyber Security & Penetration Testing*	Once a year	Rowe

IT 670—3 Approved Electives—9	*Adv. Web & Social Media Analytics*	Once a year	Hansen

Manufacturing Systems			
Course Identification & credit hours (take any three courses of the following four, plus four credit hours electives)	**Course Name and Description**	**Consistency of course offering**	**Lead Professor**
Select 21 credit hours from the following based upon committee assignment, see course description for credit hours	531. *Advanced Computer Numerical Control Programing. (3:2:3)* 532. *Manufacturing Systems (3:2:2)* 533. *Manufacturing Information Systems. (3:2:3*) 555. *Composite Materials and Processing. (3:2:2)* 572. *Design for Manufacturing. (3:2:2) W* 574. *Advanced Tool Design. (3:2:3)* 580. *Manufacturing Simulation. (3:3:0) F*	500 level courses will be offered yearly	Staff
	655. *Polymer Processing. (3)* 674. *Production System Design (3)* 675. *Advanced Manufacturing Strategies for Product Development. (3)*	600 Level courses will only be offered in years if there is enough student demand.	Staff

Technology and Engineering Education			
Course Identification	**Course Name and Description**	**Consistency of course offering**	**Lead Professor**
Stats 511—3	*Introduction to Statistics for graduate students*	F, W, Sp, Su	Staff
TEE 610—2	*History/Philosophy of Technology Education*	Odd years	Staff
TEE 625—2	*Teaching and Learning in Technology Education*	Even years	Staff
TEE 675—3	*Curriculum Development in Technology Education*	Odd Years	Staff
Selected Electives—11			

***Note: STAT 511 is required for the TEE track alone as all of the other emphasis areas require statistics in the undergraduate curriculum.**