Pittsburg State University, College of Technology
MASTER of SCIENCE in TECHNOLOGY (MST) – 30 Credit Hours
Plan of Study (starting from Spring 2022)

1. CORE COURSES – MANDATORY FOR ALL MST STUDENTS (12 HOURS)

AREA	COURSE	COURSE NAME	Cr.
Research (select 1)	GRT 891	Research Methods in Technl.	3cr
	TTED 891	Methods of Research	
	HRD 891	Methods of Research	
Stat.Based Analysis (select 1)	ETECH 899	Quantitat.Decision Making in Indstr.	3 cr
	GRT 887	Statist. Applicatns. & Data Analysis	
	TTED 887	Statist. Applicatns. & Data Analysis	
Leadership	HRD 804 (or) 706	Leadership Management	3cr
Glob. Issues	GRT 750	Technology & Society	2 cr
Assessment	*GRT 895*	*Comp. Exam (in the last semester)*	*1 cr*

NOTES

- International students enrolled in 9cr on campus may take additional online courses if their total GPA=3.00 or higher.
- A maximum of six hours of 500/600 level coursework may apply towards MST Emphasis-Elective courses.
- *Track1 Curriculum*: 12Core +18Emp.Electives
- *Track2 Curriculum*: 12Core+18Emp.Electives (for international students **if** they select Internship GRT700).

2. TECHNICAL EMPHASES ELECTIVES - APPROVED BY ADVISORS (18 HOURS):

- *International Students must take GRT799;*
- *Double MST Emphasis requires additional 12cr of graduate courses approved by academic advisors*
- *GRT700 is mandatory for students on Track2;*
- *Change in Emphasis requires REAPPLYING to MST and will need a new transcript evaluation by academic advisers.*

Automotive Technology

AT722	Alternative Fuels in Tran	3cr	ETECH809	Engineering Project Management	3cr
AT795	Special Topics in AT	1-3cr	ETECH831	Value Engineering	3cr
AT879	Emrg/Ftr Pwr Sys Tran Ind	3cr	ETECH 807	System Engineering and Analysis	3cr
AT890	Tran Ind Srv Mgmt Prod Srv	3cr	ETECH 804	Quality: Management & Control	3cr
AT700/800	Electives (Adviser approval needed)	3-6cr	HRD706	Strat for Dev HR	3cr
GRT700	Internship for Technologist	3cr	HRD796	HRD Foundations	3cr
GRT799	Prof Dev for Technologists	3cr	HRD879	Creating Connect Through Presentations	3cr
GRT 788	Lean Manufacturing and Quality Control	3cr			

STEM College Teaching

HRD879	Creating Connect Through Presentations	3cr	TE 892	College Teaching Internship	3cr
TE882	Instructional Strategies for T&EE	3cr	TE753	Studies in Technology Education (Assessment)	3cr
TE796	Organization/Management for TE	3cr	TE 893	Seminar in Technology Education (Lesson Dev.)	3cr
TE881	Orientation to College Teaching	3cr	700-level	Education Related Electives with advisor approval	3cr

GRAPHICS Design (or) Management

GIT810	Special Topics	3-6cr	ETECH831	Value Engineering	3cr
GIT880	Graphics Administration	3cr	ETECH807	System Engineering and Analysis	3cr
GIT890	Graphic Arts Seminar	3cr	ETECH 804	Quality: Management & Control	3cr
GRT700	Internship for Technologist	3cr	HRD706	Strat for Dev HR	3cr
GRT799	Prof Dev for Technologists	3cr	HRD796	HRD Foundations	3cr
ETECH809	Engineering Project Management	3cr	HRD879	Creating Connect Through Presentations	3cr
GRT 788	Lean Manufacturing and Quality Control	3cr			

Human Resources

HRD706	Statistical for Dev HR	3cr	GRT700	Internship for Technologist	3cr
HRD796	HRD Foundations	3cr	GRT710	Industrial Organization and Management	3cr
HRD879	Creating Connect Through Presentations	3cr	ETECH804	Quality: Management & Control	3cr
GRT799	Professional Development for Technologists	3cr	ETECH809	Engineering Project Management	3cr
GRT 788	Lean Manufacturing and Quality Control	3cr	ETECH831	Value Engineering	3cr

Information Technology

GRT 713	Computer Programming Languages	3cr	ETECH831	Value Engineering	3cr
GRT 714	Network Administration Concepts	3cr	GRT 710	Industrial Organization and Management	3cr
CIS615/715	Database Management	3cr	ETECH 804	Quality : Management & Control	3cr
CIS625/725	Advanced Database Management	3cr	GRT799	Prof Dev for Technologists	3cr
CIS640/740	E-Business Applications and Development	3cr	GRT700	Internship for Technologist	3cr
CIS690	Special Topic	3-6cr	GRT 788	Lean Manufacturing and Quality Control	3cr
CIS801	Special Topic	3-9cr	ETECH809	Engineering Project Management	3cr

Technology Management

TM606	Industrial Supervision	3cr	GRT700	Internship for Technologist	3cr
ETECH804	Quality: Management & Control	3cr	GRT799	Prof Dev for Technologists	3cr
ETECH831	Value Engineering	3cr	HRD706	Strat for Dev HR	3cr
GRT 710	Industrial Organization and Management	3cr	HRD796	HRD Foundations	3cr
ETECH 807	System Engineering and Analysis	3cr	HRD879	Creating Connect Through Presentations	3cr
ETECH 809	Engineering Project Management	3cr	GRT 788	Lean Manufacturing and Quality Control	3cr

No Emph.

Graduate Technology Electives		9cr	ETECH809	Engineering Project Management	3cr
GRT799	Prof Dev for Technologists	3cr	ETECH831	Value Engineering	3cr
GRT700	Internship for Technologist	3cr	ETECH 804	Quality Management and Control	3cr
			GRT 788	Lean Manufacturing and Quality Control	3cr