

Michigan Technological University
Degrees Conferred by College
2008-09 through 2017-18*

University Total										
Degree	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18
Associate	23	6	3	0	1	0	0	3	1	1
Baccalaureate	1,073	1,149	1,026	1,184	1,103	1,036	1,103	1,065	1,066	1,120
Master's	169	202	269	289	282	325	358	416	489	438
Doctoral	57	56	55	63	75	73	75	86	88	93
Total	1,322	1,413	1,353	1,536	1,461	1,434	1,536	1,570	1,644	1,652

Associate Degrees										
College/School	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18
College of Sciences & Arts	1	2	2	0	1	0	0	2	1	1
School of Technology	22	4	1	0	0	0	0	1	0	0
Total	23	6	3	0	1	0	0	3	1	1

Baccalaureate Degrees - First Majors										
College/School	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18
School of Business & Economics	110	103	96	122	103	76	75	75	83	73
College of Engineering	598	645	570	633	621	605	629	667	637	719
School of Forest Resources & Environmental Science	40	35	37	45	37	35	50	31	30	41
College of Sciences & Arts	223	234	214	267	263	234	257	241	258	212
School of Technology	102	132	109	117	79	86	92	51	58	75
Total	1,073	1,149	1,026	1,184	1,103	1,036	1,103	1,065	1,066	1,120

Baccalaureate Degrees-Second Majors										
College/School	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18
School of Business & Economics	0	1	8	9	11	8	8	12	19	7
College of Engineering	20	17	15	13	23	25	25	18	15	12
School of Forest Resources & Environmental Science	3	5	7	5	2	3	9	4	3	3
College of Sciences & Arts	15	5	9	11	17	12	13	11	12	7
School of Technology	0	0	0	0	0	0	0	0	0	0
Total	38	28	39	38	53	48	55	45	49	29

*Fiscal Year includes Summer, Fall and Spring term graduates.

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Master's Degrees										
College/School	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18
School of Business & Economics	13	22	26	20	22	24	18	27	28	31
College of Engineering	102	127	173	190	187	238	264	298	377	304
School of Forest Resources & Environmental Science	18	17	24	17	25	22	16	20	26	20
College of Sciences & Arts	36	36	46	62	46	39	51	65	51	72
School of Technology	0	0	0	0	2	2	9	6	7	11
Total	169	202	269	289	282	325	358	416	489	438

Doctoral Degrees										
College/School	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18
College of Engineering	32	27	34	40	47	45	45	37	60	45
School of Forest Resources & Environmental Science	9	7	0	4	7	4	5	8	3	7
College of Sciences & Arts	16	22	21	19	21	24	25	41	25	40
School of Technology	0	0	0	0	0	0	0	0	0	1
Total	57	56	55	63	75	73	75	86	88	93

*Fiscal Year includes Summer, Fall and Spring term graduates.

Michigan Technological University
Degrees Conferred by Major
2008-09 through 2017-18*

Associate Degrees										
Major	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18
Civil Engineering Technology	15	2	1	0	0	0	0	0	0	0
Electrical Eng Tech (AAS)	4	1	0	0	0	0	0	0	0	0
Electromechanical Eng Tech	1	0	0	0	0	0	0	1	0	0
Engineering Technology	2	1	0	0	0	0	0	0	0	0
Forest Technology	0	0	0	0	0	0	0	0	0	0
Humanities	1	2	2	0	1	0	0	2	1	1
Mechanical Design Eng Tech	0	0	0	0	0	0	0	0	0	0
Total	23	6	3	0	1	0	0	3	1	1

Baccalaureate Degrees - First Major										
Major	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18
Accounting	0	4	17	23	24	17	12	5	19	8
Anthropology	2	2	4	3	1	6	7	3	5	3
App Ecol & Environ Sci	10	12	6	8	11	16	10	3	3	8
Applied Geophysics	0	3	3	0	1	2	3	2	5	3
Applied Physics	6	5	2	0	0	0	0	2	1	3
Audio Production & Technology	2	3	2	5	2	4	1	1	3	7
Biochem & Molec Biology-Bio Sc	0	5	5	5	7	7	4	7	9	4
Biochem & Molec Biology-Chem	2	5	2	5	3	4	3	6	5	1
Bioinformatics	1	2	0	0	3	1	1	1	4	1
Biological Sciences	30	37	36	39	37	35	31	21	37	17
Biomedical Engineering	41	55	31	45	47	49	58	47	45	53
Business Administration	107	86	62	47	13	3	1	0	0	0
Chemical Engineering	54	57	66	73	71	75	78	102	79	93
Cheminformatics	1	0	0	1	0	2	0	2	1	1
Chemistry	6	12	11	9	9	10	13	7	8	7
Civil Engineering	104	110	96	133	117	108	84	82	79	81
Clinical Laboratory Science	6	5	6	13	7	0	0	0	0	0
Comm and Culture Studies	4	6	5	2	1	0	0	0	0	0
Communication, Culture & Media	0	0	0	5	10	4	3	2	0	4
Computer Engineering	38	25	35	23	30	35	38	34	43	41
Computer Network & System Admn	27	36	42	33	29	30	32	17	19	21
Computer Science	43	37	28	37	40	34	45	50	50	50
Computer Systems Science	3	4	5	7	4	5	3	0	1	0
Construction Management	20	19	15	20	8	10	9	3	5	2
Economics	3	7	3	12	11	8	4	2	4	1
Electrical Eng Tech	15	10	8	13	10	15	12	5	6	11
Electrical Engineering	98	96	74	90	70	89	87	70	85	83
Engineering	9	14	6	4	6	1	4	2	2	2

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Michigan Technological University
Degrees Conferred by Major
2008-09 through 2017-18*

Baccalaureate Degrees - First Major (continued)										
Major	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18
Engineering Management	0	0	0	0	0	1	3	12	8	13
Engineering Technology	0	0	0	0	0	1	0	0	0	0
Engineering-Geoenvironmental	0	0	0	0	0	0	0	0	0	0
Engineering-Manufacturing	0	0	0	0	0	0	0	0	0	0
English	0	0	2	7	3	3	4	3	4	4
Environmental Engineering	19	36	26	42	33	26	32	38	38	41
Exercise Science	7	9	8	25	28	21	21	14	12	12
Finance	0	3	8	20	15	11	20	12	13	18
Forestry	21	19	20	24	18	14	28	22	19	19
Geological Engineering	7	9	6	12	9	7	9	11	11	21
Geology	2	3	2	7	2	4	2	1	5	7
Health and Physical Education	1	1	3	0	0	0	0	0	0	0
History	0	0	0	0	0	1	5	1	4	1
Industrial Technology	3	7	10	9	2	2	0	0	0	0
Liberal Arts	4	6	0	1	2	1	0	1	0	0
Liberal Arts with History Opt	3	1	2	2	3	2	0	0	0	0
Management	0	0	2	8	13	16	11	21	19	22
Management Information Systems	0	2	0	3	8	2	5	13	11	5
Marketing	0	1	4	8	13	12	17	10	9	5
Materials Science and Engrg	23	19	23	20	20	22	26	29	25	30
Mathematics	22	15	18	28	20	13	22	14	24	22
Mechanical Engineering	203	218	202	184	215	187	208	249	220	264
Mechanical Engineering Tech	31	47	22	29	21	23	34	23	26	34
Medical Laboratory Science	0	0	0	0	0	5	16	12	15	10
Metallurgical & Materials Engr	0	0	0	0	0	0	0	0	0	0
Mining Engineering	0	0	0	0	0	0	0	0	0	0
Natural Resources Management	0	0	0	0	0	0	0	0	0	1
Operations and Systems Mgmt	0	0	0	1	6	6	2	0	0	1
Pharmaceutical Chemistry	1	5	4	4	7	8	4	2	3	3
Physics	16	10	9	14	9	10	4	4	9	6
Physics (BA)	0	0	0	0	4	0	5	3	5	1
Psychology	15	16	19	13	17	15	17	27	9	11
Scientific & Tech Comm (BA)	9	1	4	10	6	4	7	7	8	2
Scientific & Tech Comm (BS)	14	17	8	9	8	13	7	8	5	7
Social Sciences	17	14	12	6	5	3	4	3	2	7
Software Engineering	7	11	14	8	9	10	8	11	17	15
Sound Design	0	4	4	0	6	5	6	7	4	4
Sports and Fitness Management	0	0	0	4	9	6	7	12	6	7
Statistics	0	0	0	0	0	0	0	1	3	1
Surveying	1	1	0	0	0	0	0	0	0	0
Surveying Engineering	5	12	12	13	9	5	5	3	2	7
Theatre & Electr. Media Perf.	0	0	0	1	0	0	0	3	1	0
Theatre & Entertain Tech (BA)	1	1	0	2	1	0	0	0	0	0
Theatre & Entertain Tech (BS)	0	0	1	2	2	2	9	6	3	1
Wildlife Ecology & Mgmt	9	3	11	13	7	5	12	6	8	13
Wood Science	0	1	0	0	1	0	0	0	0	0
Total	1,073	1,149	1,026	1,184	1,103	1,036	1,103	1,065	1,066	1,120

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Michigan Technological University
Degrees Conferred by Major
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Baccalaureate Degrees - Second Major										
Major	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18
Accounting	0	0	2	0	1	0	0	1	3	2
App Ecol & Environ Sci	0	2	2	2	0	0	4	2	0	0
Audio Production & Technology	0	0	0	0	0	0	1	0	0	0
Biochem & Molec Biology-Bio Sc	0	1	0	0	1	0	1	1	0	0
Biochem & Molec Biology-Chem	0	0	0	0	0	1	1	0	1	0
Bioinformatics	0	0	0	0	0	0	0	2	0	0
Biological Sciences	3	1	3	0	4	1	2	1	1	0
Biomedical Engineering	0	1	2	1	1	2	2	0	0	0
Chemistry	0	0	0	1	0	0	0	0	0	0
Communication, Culture & Media	0	0	0	1	0	0	0	0	0	0
Computer Engineering	3	7	1	3	5	5	6	5	6	4
Computer Science	1	0	1	1	2	3	1	2	6	1
Electrical Engineering	16	8	11	5	17	17	17	11	9	7
Exercise Science	1	1	2	2	1	2	1	2	1	0
Finance	0	0	5	1	1	3	3	3	4	1
Forestry	1	1	2	0	0	0	0	1	1	1
Liberal Arts	0	0	0	1	0	0	0	0	0	0
Management	0	1	0	3	5	3	3	2	5	0
Management Information Systems	0	0	0	1	0	0	0	2	5	2
Marketing	0	0	1	4	3	2	1	3	2	2
Materials Science and Engrg	0	0	0	1	0	0	0	0	0	0
Mathematics	8	1	0	3	7	5	5	1	3	4
Mechanical Engineering	1	1	1	3	0	1	0	2	0	1
Medical Laboratory Science	0	0	0	0	0	0	1	0	0	1
Operations and Systems Mgmt	0	0	0	0	1	0	1	1	0	0
Pharmaceutical Chemistry	0	0	2	0	0	0	0	1	0	0
Psychology	0	1	0	0	0	0	0	0	0	0
Scientific & Tech Comm (BS)	0	0	0	1	0	0	0	0	0	0
Social Sciences	2	0	1	1	2	0	0	0	0	1
Statistics	0	0	0	0	0	0	0	1	0	0
Wildlife Ecology & Mgmt	2	2	3	3	2	3	5	1	2	2
Total	38	28	39	38	53	48	55	45	49	29

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Major	Master's Degrees									
	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18
Accounting	0	0	0	0	0	0	0	11	9	12
App. Cognitive Sci & Human Fac	0	0	0	0	1	1	0	3	5	1
Applied Ecology	2	5	3	3	5	3	5	4	3	2
Applied Natural Resource Econ.	1	3	1	3	0	7	5	4	1	0
Applied Physics	0	0	0	0	0	0	0	1	2	3
Applied Science Education	2	5	3	8	6	2	14	3	2	5
Biological Sciences	6	3	0	6	4	3	4	8	7	11
Biomedical Engineering	0	0	0	0	1	1	3	11	10	10
Business Administration	0	1	0	0	0	0	0	0	0	0
Business Administration	12	17	25	17	22	17	13	12	14	14
Chemical Engineering	5	2	10	8	8	17	9	8	13	10
Chemistry	1	0	2	3	4	1	2	2	1	1
Civil Engineering	9	17	13	14	9	23	23	30	28	34
Civil Engineering	2	2	4	7	0	0	0	0	0	0
Computer Engineering	0	0	7	3	6	11	7	5	12	13
Computer Science	5	9	12	14	12	6	6	3	11	16
Data Science	0	0	0	0	0	0	0	0	4	15
Electrical Engineering	20	44	36	29	47	54	86	95	90	82
Engineering	3	2	1	5	3	6	3	3	6	4
Engineering Mechanics	0	0	2	0	0	0	0	1	0	0
Environmental & Energy Policy	0	0	0	0	0	4	4	8	2	2
Environmental Engineering	1	0	1	0	0	0	0	0	0	0
Environmental Engineering	13	13	9	9	12	7	7	17	22	14
Environmental Engrg Science	0	0	1	3	0	0	0	2	3	1
Environmental Policy	5	2	4	2	1	2	0	0	0	0
For Molec Genetics & Biotec	2	2	1	1	0	3	1	1	2	2
Forest Ecology & Mgmt	4	6	5	5	7	6	1	4	1	2
Forestry	9	2	7	5	5	5	3	0	6	4
Forestry	1	2	8	3	8	5	4	7	9	6
Geographic Information Science	0	0	0	0	0	0	2	4	5	4
Geological Engineering	2	0	1	1	2	0	0	3	2	1
Geology	4	4	6	6	7	12	8	11	9	3
Geophysics	0	0	3	3	0	0	1	7	18	2
Industrial Archaeology	3	4	4	2	2	3	1	5	1	4
Integrated Geospatial Tech	0	0	0	0	2	1	4	3	1	6
Kinesiology	0	0	0	0	0	0	0	7	4	4
Materials Science and Engrg	1	0	3	6	3	1	5	4	14	8
Mathematical Sciences	10	4	9	13	6	10	12	17	12	10
Mechanical Engineering	42	43	76	96	88	106	112	101	149	119
Medical Informatics	0	0	0	0	0	1	5	3	6	4
Metallurgical & Materials Engr	0	0	0	0	0	0	0	0	0	0
Mineral Economics	0	1	0	0	0	0	0	0	0	0
Mining Engineering	0	0	0	0	1	0	0	0	1	1
Operations Management	0	0	0	0	0	0	0	0	0	0
Physics	2	4	4	6	4	5	2	3	1	3
Rhetoric & Tech Communication	2	5	8	8	6	2	6	3	0	0
Rhetoric, Theory and Culture	0	0	0	0	0	0	0	2	3	5
Total	169	202	269	289	282	325	358	416	489	438

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Major	Doctoral Degrees									
	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18
App. Cognitive Sci & Human Fac	0	0	0	0	1	0	3	4	1	1
Applied Physics	0	0	0	0	0	0	0	0	1	0
Atmospheric Sciences	0	0	0	0	0	1	4	2	0	2
Biochemistry/Molecular Biology	0	0	0	0	0	0	0	2	2	2
Biological Sciences	4	3	2	3	3	5	3	0	5	5
Biomedical Engineering	0	2	4	0	1	1	1	5	5	1
Chemical Engineering	4	3	4	4	6	6	9	4	3	6
Chemistry	1	5	3	1	5	6	3	7	2	4
Civil Engineering	1	2	3	5	7	4	3	4	9	4
Computational Science & Engrg	0	0	0	2	0	0	0	0	2	2
Computer Engineering	0	0	0	1	3	1	0	1	3	2
Computer Science	0	1	1	2	1	1	4	5	3	4
Electrical Engineering	4	5	5	11	8	6	5	3	7	7
Engineering - Environmental	6	2	3	1	3	3	3	3	3	2
Engineering Physics	0	1	4	1	3	2	0	3	1	0
Environmental & Energy Policy	0	0	0	0	0	0	0	2	2	1
For Molec Genetics & Biotec	0	3	0	1	0	0	2	0	0	1
Forest Science	9	4	0	2	7	4	3	8	3	5
Geological Engineering	0	0	0	0	1	0	2	0	1	0
Geology	1	2	1	2	2	2	2	3	2	0
Geophysics	0	0	0	1	1	1	0	0	1	0
Indust Heritage & Archaeology	0	2	0	0	1	0	1	1	0	4
Materials Science and Engrg	4	2	2	2	4	5	3	3	10	2
Mathematical Sciences	3	2	1	2	4	2	0	3	3	8
Mechanical Eng-Eng Mechanics	12	9	12	14	11	16	16	11	14	20
Metallurgical & Materials Engr	0	0	0	0	0	0	0	0	0	0
Mining Engineering	0	0	0	0	0	0	0	0	0	0
Physics	3	2	3	1	2	0	2	5	2	2
Rhetoric & Tech Communication	5	6	7	7	1	7	5	1	0	0
Rhetoric, Theory and Culture	0	0	0	0	0	0	1	6	3	8
Total	57	56	55	63	75	73	75	86	88	93

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Michigan Technological University

School of Forest Resources and Environmental Science

Strategic Plan December 2018

Vision

To be a global leader in the development and communication of science and technology related to the understanding, stewardship, and conservation of natural systems, of which humans are an integral part.

Mission

Given our changing world, we work to address the challenges in natural resource sustainability through education and training, novel research, innovation, and outreach.

Goals

We accomplish our mission by engaging with people, leading vibrant programs, and caring for the places we work and conduct research. We lead into the future by focusing on our students, their creativity, and the challenges and opportunities that they inherit.

People

Excellence—We promote excellence in students, faculty, staff, and alumni throughout their careers.

- Recruit, mentor, support, and retain students from diverse backgrounds and with diverse interests.
- Motivate our students to excel through hands-on educational programs.
- Recruit, support, and retain faculty and staff from diverse backgrounds and with diverse interests in teaching, research and outreach, and reward the excellence of their contributions.
- Provide world-class and global educational opportunities for undergraduate and graduate students.

Respect—We maintain interpersonal relationships that are inclusive and in which all people are valued.

- Recognize and value the range of interests and expertise within the School.
- Utilize opportunities to expand the areas of expertise that contribute to our education and research.
- Share and celebrate the achievements of the people in our community of scholars, students, staff and alumni.

Diversity—We provide opportunities in natural resource science, appreciation, and stewardship for all people.

- Identify and implement new ways to engage and retain an ever-increasing diversity of people in our programs.
- Create meaningful opportunities for diverse populations to interact with the natural world.
- Promote the importance of the natural world to the health and quality of life for all people.

Programs

The place of humans—We aim to better understand the role of humans in natural systems.

- Understand the effects of global change and the dynamics between human intervention and natural processes to achieve sustainability.
- Implement innovative programs that focus on the natural world and its interface with humans and engineered systems.
- Identify the impacts of humans on socio-ecological systems, and how critical dimensions of these systems can be protected and valued.
- Promote natural and managed systems that generate products and services of economic, ecological and social value.

- Engage in partnerships within and outside the University to strengthen and broaden our education, research and outreach programs.
- Broadly share our knowledge and findings to cultivate interest in, and understanding of, the natural world.

Educational programs—We offer educational programs to train the present and future leaders in ecosystem studies and stewardship.

- Provide education that focuses on adaptation of thought and of stewardship so that graduates are effective as a key component of the next generation.
- Engage Indigenous scholars and communities to incorporate Indigenous perspectives into curricula that educate about stewardship of land, water, and biodiversity.
- Engage broader populations of students in our programs through technological advances in program delivery.
- Implement programs that promote and provide support to our graduates as life-long learners.
- Promote the well-being of current and future generations of students as they lead in the ever-changing technological world.

Research with global impacts—We conduct research that advances understanding of the components, function, and sustainability of forests and related ecosystems around the world.

- Increase externally funded research to address interdisciplinary and transdisciplinary questions of importance to science and society.
- Conduct research that optimizes the integration of technologies for understanding the structure, function and trajectories of socio-ecological systems.
- Support growth of interdisciplinary and transdisciplinary research that focuses on the sustainability of natural systems and the products yielded by the effective stewardship of these systems.

Places

Physical space—We maintain high quality spaces for learning and for research, in an environment that is safe, accessible, and welcoming to all.

- Create spaces for education that are inclusive, safe, and conducive to the implementation of novel pedagogies.
- Focus resources on the indoor and outdoor environment for education and research on the main campus and at the Ford Center and Forest field campus.
- Integrate technology into education and research spaces and ensure that they are world-class.
- Promote physical safety, emotional well-being, and mindfulness in our community.

Natural areas—We steward land to convey our values of sustainable land management with a view to future generations.

- Manage lands in ways that acknowledge their heritage and with a view towards sustainability.
- Demonstrate land stewardship that reflects knowledge provided by all peoples, and that reflects adaptation to our changing world.
- Provide opportunities for research on lands overseen by the School that may not be feasible elsewhere.

Share the natural world—We provide opportunities and places for people to interact with nature.

- Share the natural world with diverse audiences to inspire their interest and care for these systems.
- Facilitate meaningful interactions between people and the natural world that are respectful and that promote sustainability.
- Promote the connection between the natural world, goods and services provided by ecosystems, and the health and well-being of humans.
- Understand and demonstrate ethical behaviors in interactions among humans and the environment.