

## Degrees

- Those degrees with 'c' after the year are from Registrars list of degrees conferred found in vault 2/8/08
- All final approval dates for *degrees* confirmed with Board of Control Index of Meeting Minutes; *minor and undergraduate certificates* administrative approval date; *graduate certificates* final state approval date.
- 'a' after date indicates information from BOC Proceedings Abstract 1935, Annette Sibilsky, 5<sup>th</sup> Floor Admin vault
- 's' indicates Senate approval date (where no other date available).

06/06/1941 Graduate degree requirements are codified by BOC  
 07/06/1950 Graduate School and Grad Faculty Council officially created by BOC  
 04/21/2010 International Dual Graduate Degrees authorized for existing degrees; rules and process defined (Senate proposal 24-10)

### Ph.D Degrees

6/3/1932<sup>a</sup> Ph.D. requirements listed  
 1934<sup>c</sup> Metallurgy (*not listed in catalog offerings; not in BOC minutes; however, degree conferred to Roy Ward Drier and Corbin T. Eddy in 1934*)  
 05/06/1955 approved future Ph.D. offerings by departments-determined by President  
 Unsuspended after not offering for 'many' years:  
     02/15/1963 Chemistry  
     02/15/1963 Engineering Mechanics **END 6/2/2011**  
     02/15/1963 Geology  
 02/15/1963 Metallurgical Engineering  
 08/25/1972 Biological Science  
 02/15/1974 Mechanical Engineering-Engineering Mechanics  
 01/18/1985 Engineering  
 01/18/1985 Engineering: Environmental Engineering  
 03/27/1985<sup>s</sup> Engineering: Structural Engineering (S=Date of Senate approval, appd by admin but no date)  
 05/14/1985 Engineering: Sensing and Signal Processing Ph.D.  
 05/14/1985 Engineering: Geotechnical Engineering, Ph.D.  
 05/22/1987 Forest Science  
 11/20/1987 Applied Physics **END 6/2/2011**  
 11/15/1990 Rhetoric and Technical Communication  
 03/22/1991 Chemical Engineering  
 03/22/1991 Civil Engineering  
 03/22/1991 Electrical Engineering  
 03/22/1991 Mining Engineering  
 06/12/1994 Computational Science & Engineering within the PhD in Engineering  
 00/22/1995 Geological Engineering  
 07/30/1996 Mathematical Sciences  
 05/26/2000 Non-Departmental PhD in Propulsion Systems Engineering  
 03/09/2001 Computer Science  
 03/09/2001 Forest Molecular Genetics and Biotechnology  
 12/14/2001 Engineering Physics

06/25/2004 Industrial Heritage and Archaeology  
06/24/2005 Biomedical Engineering  
05/04/2007 Atmospheric Science  
05/01/2009 Computer Engineering  
07/16/2009 Applied Cognitive Science and Human Factors  
07/15/2010 Geophysics  
07/15/2010 Environmental and Energy Policy

### **Masters Degrees**

09/18/1998 Master of Engineering  
02/08/2001 Applied Science Education  
06/25/2004 Master of Engineering-Civil Engineering  
06/25/2004 Master of Engineering-Environmental Engineering  
06/25/2004 Forestry  
06/22/2006 MBA Master of Business Administration

### **Masters of Science Degrees**

12/16/1926<sup>a</sup> M.S. General Engineering (*this may be permission for all engineering Degrees as many were conferred from 1930-54 but found no specific BOC approval*) **END 6/2/2011**  
12/16/1926<sup>a</sup> M.S. Metallurgy  
12/16/1926<sup>a</sup> M.S. Chemistry  
12/16/1926<sup>a</sup> M.S. Geology  
12/16/1926<sup>a</sup> M.S. Mechanical Engineering  
1930<sup>c</sup> M.S. Electrical Engineering  
1931<sup>c</sup> M.S. Geophysics  
1931<sup>c</sup> M.S. Mining  
1932<sup>c</sup> M.S. Civil Engineering  
1933<sup>c</sup> M.S. Chemical Engineering  
1942<sup>c</sup> M.S. Geological Engineering  
1946<sup>c</sup> M.S. Metallurgical Engineering  
1947<sup>c</sup> M.S. Mining Engineering  
1950<sup>c</sup> M.S. Engineering Physics **END 6/2/2011**  
1954<sup>c</sup> M.S. Physics  
01/31/1959 M.S. Engineering Mechanics  
02/10/1962 M.S. Mathematics  
02/10/1962 M.S. Business Administration **END 6/2/2011**  
01/31/1959-69 Nuclear Engineering (*end date from Tech Topics online 2/9/1996 -does show in Senate minutes as an announcement not a vote– President of University announced its end due to costs*)  
02/13/1965 M.S. Biological Sciences  
03/17/1980 Computer Science (dates from Senate proposal 4-80)  
10/12/1973 Science Majors and Science Education (state) Minors in Teacher Education  
03/25/1983 Mineral Economics **NAME CHANGE 5/4/2007 Applied Natural Resource Economics**  
11/22/1985 Rhetoric and Technical Communication  
03/19/1993 Industrial Archeology

02/07/1994 Option: Discrete Mathematics for M.S. in Mathematical Sciences  
07/30/1996 Environmental Policy  
05/23/1997 Environmental Engineering  
05/21/1999 Environmental Engineering Science  
05/11/2001 Applied Science Education  
11/25/2003 Mathematical Sciences  
06/25/2004 Forest Ecology and Management  
06/25/2004 Applied Ecology  
06/25/2004 Forest Molecular Genetics and Biotechnology  
05/01/2009 Computer Engineering  
07/16/2009 Applied Cognitive Science and Human Factors

### **Graduate Certificates**

03/03/2004 Interdisciplinary Graduate Certificate in Sustainability  
01/25/2008 Interdisciplinary Graduate Certificate in Nanotechnology  
07/03/2008 Advanced Electric Power Engineering  
11/06/2009 Sustainable Water Resources Systems  
04/21/2010 Graduate Certificate in Hybrid Electric Drive Vehicle Engineering  
03/21/2010 Interdisciplinary Graduate Certificate: The International Profile Certificate

### **Bachelors Degrees**

11/28/1916<sup>a</sup> 4 yr degree inc. summer breaks w/alternate 3 year w/o breaks to degree (Mining)  
01/08/1925<sup>a</sup> Charter broadened to allow degrees in other engineering branches besides Mining  
  
1888<sup>c</sup> Bachelor of Science (probably by Charter)  
1890<sup>c</sup> Engineer of Mines (by Charter)  
11/12/1925<sup>a</sup> Metallurgical Engineer  
12/16/1926<sup>a</sup> General Engineering  
11/25/1926<sup>a</sup> Civil Engineering  
11/25/1926<sup>a</sup> Mechanical Engineering  
12/16/1926<sup>a</sup> Chemistry  
11/12/1925<sup>a</sup> Chemical Engineering  
11/12/1925<sup>a</sup> Electrical Engineering  
12/16/1926<sup>a</sup> Geology  
1933<sup>c</sup> General Science **END 6/2/2011**  
04/25/1938<sup>a</sup> Forestry  
1943<sup>c</sup> Geological Engineering  
06/06/1941 Medical Technology (Laboratory Technician Training p.249)  
11/12/1960 p. 469 BOC supported agreement w/hospitals for internship for Med Techs  
10/10/1945<sup>a</sup> Engineering Physics **NAME CHANGE to: APPLIED PHYSICS 2/24/1961**  
10/10/1945<sup>a</sup> Physics  
10/10/1945<sup>a</sup> Pre-Med (developed from Medical Technology) **END 6/2/2011**  
10/10/1945<sup>a</sup> Pre-Dental (developed from Medical Technology) **END 6/2/2011**  
1949<sup>c</sup> Engineering Administration **END 6/2/2011**  
1950<sup>c</sup> Mathematics  
02/25/1955 Business Administration

04/28/1956 Geophysical Engineering **END 6/2/2011**  
09/17/1956 Nursing **END 6/2/2011**  
07/01/1962 Biological Sciences  
05/17/1967<sup>s</sup> Senate date: Proposal 3-67 allowing Science Teacher Education programs  
08/11/1967 Liberal Arts 3 new options:

History

English **NAME CHANGE TO: English B.A. 6/3/2010**

Technical Writing

10/06/1970 Computer Science and Engineering  
10/06/1970 Earth Sciences Major  
06/16/1972 Social Sciences  
04/13/1973 Computer Science  
11/02/1977 Information Systems Option (Business Administration/Computer Science)  
01/28/1982 Scientific and Technical Communication B.S.  
03/25/1983 Operations Management  
09/23/1983<sup>s</sup> Proposal 6-83 option in Science Technology and Society for a B.S. in Social Sciences-approved by administration.  
05/23/1986 Environmental Engineering  
05/02/1994 Option in Plant Sciences, Biological Sciences B.S.  
01/23/1995 Atmospheric Science Option in the Geology B.S.  
08/17/1997 Earth Science Education Option in the B.S., Geology  
05/23/1997 Applied Ecology and Environmental Sciences  
04/21/1998 Pre-Law Option in Social Sciences B.S. **NAME CHANGE to Law and Society 4/29/2005**  
03/25/1998 Social Studies Education Option in Social Sciences B.S.  
06/18/1998 English Education Option in Liberal Arts B.A.  
07/07/1999 Computer Engineering  
08/03/2000 Biomedical Engineering  
07/17/2001 Bioinformatics  
12/13/2002 Computer Systems Science  
12/13/2002 Computer Network and System Administration  
07/25/2003 Software Engineering  
03/05/2004 Psychology  
06/25/2004 Wildlife Ecology and Management  
04/22/2004 Engineering Technology, Conc. In Construction Management Technology  
**CHANGE TO: Construction Management 6/24/2005**  
04/22/2004 Electrical Engineering Option Photonics  
04/22/2004 Mathematical Sciences, Concentration in Education Preparation  
04/22/2004 Biological Sciences, Fish Biology Concentration  
06/25/2004 Communication and Culture Studies with Concentrations in: **CHANGE TO: Communication, Culture, and Media 4/15/2011 in:**  
Communication in Contemporary Culture  
Communication in Human Interactions and Global Contexts **CHANGE TO: Language and Diversity 4/15/2011**  
Communication Media **CHANGE TO: Media 4/15/2011**  
04/29/2005 B.S. Theatre and Entertainment Technology  
04/29/2005 B.S. Audio Production and Technology

04/29/2005 B.A. Theatre and Entertainment Technology  
04/29/2005 B.A. Sound Design  
04/29/2005 B.S. Cheminformatics  
04/29/2005 B.S. Pharmaceutical Chemistry  
02/24/2006 B.S. Anthropology  
04/28/2006 B.S. Biochemistry & Molecular Biology with Concentrations in:  
Chemistry  
Biological Sciences  
04/28/2006 B.S. Exercise Science  
  
05/04/2007 B.S. Health and Physical Education with Concentrations in:  
Fitness and Sports Management  
Secondary Education **CHANGE TO: Sports and Fitness Mangement,  
B.S. (no longer a concentration) 6/2/2011**  
02/28/2008 B.A. Theatrical and Electronic Media Performance

### **Name Changes Bachelors Degrees and M.S. Degrees**

**(note: The name changes were made to this list if the original degree could be found. The changes listed below have no corresponding exact degree title listed as approved.)**

04/10/1970 Physical Metallurgy Option to Material Science and Engineering  
04/29/2005 B.S. Social Science Concentration: Pre-Law changed to Law and Society  
06/24/2005 B.S. Surveying to Surveying Engineering  
06/24/2005 B.S. BSET w/Conc in Elec Eng Tech to Electrical Engineering Technology  
06/24/2005 B.S. BSET w/Conc in Mech Eng Tech to Mechanical Engineering Technology  
06/24/2005 B.S. BSET w/Conc in Civil Eng Tech to Construction Management  
04/28/2006 B.S. BSET, Eng. Tech Conc in ME TO BSIT, Industrial Technology  
05/04/2007 M.S. MS in Mineral Economics Degree to Applied Natural Resource Economics  
07/16/2009 B.S. Business Administration, Accounting Conc. to Accounting  
07/16/2009 B.S. Business Administration, Management Conc. to Management  
07/16/2009 B.S. Business Administration, Operations and Systems Management. to  
Operations and Systems Management  
07/16/2009 B.S. Business Administration, Finance Conc. to Finance  
07/16/2009 B.S. Business Administration, Marketing Conc. to Marketing  
07/16/2009 B.S. Business Administration, Management Information Systems Conc. to  
Management Information Systems  
06/03/2010 B.S. Bachelor of Arts in Liberal Arts w Conc. in English to Bachelor of Arts  
In English  
06/03/2010 B.S. Bachelor of Arts in Liberal Arts w Conc. in Interdisciplinary Studies to  
Bachelor of Arts in Liberal Arts  
06/03/2010 B.S. Bachelor of Arts in Liberal Arts with a Concentration in English to  
Bachelor of Arts in English with Concentration in Secondary Education

### **Associate Degrees**

10/31/1961 *BOC mentioned Existing Medical BS degree with Pre-Biology, Pre Medicine, and Pre Dentistry – 2 year programs*  
 04/10/1970 Metals Technology **END 6/2/2011**  
 06/16/1972 Applied Nursing **END 6/2/2011**  
 06/16/1972 Electromechanical Engineering Technology  
 05/23/1997 Chemical Engineering Technology **END 6/2/2011**  
 06/05/2001 Engineering Technology, AAS (by memo only S. Bowen-Senate did not want to review and State was notified by S. Bowen)

### **Suspended/Eliminated Bachelors Degrees (by Board of Control)**

04/28/1956 Geophysics  
 03/12/2004 Mining Engineering, B.S. (suspended) (was Engineer of Mines 1890)  
 11/29/2001 Minerals Processing Engineering Option (eliminated)

### **Suspended/Eliminated Associate Degrees (by Board of Control)**

12/14/2001 Forest Technology (eliminated)  
 03/12/2004 Chemical Engineering Technology (suspended)  
 1981<sup>s</sup> Applied Science Degree Nursing Technology (Proposal 1-81 to continue offering was Defeated-no dates listed)

### **Suspended Minors and Certificates**

04/22/2004 Minor Speech (suspended)  
 03/01/1993 Certificate Municipal Management (offered one time for a Polish exchange Program awarded February 1993 by School of Business)  
 04/22/2004 Minor: Presentation (Fine Arts) (eliminated)

**Minors and Certificates** in production as of Administrative approval date (note: no BOC approval required. Administrative approval dates may be verified by looking at the Senate Proposal-bottom of proposal on web page):

Certificate in Foreign Language and Area Study	09/23/1983
One certificate with focus in either French, German, or Spanish	
Certificate in International Technology and Society	5/3/1989 <b>eliminated 4-15-2011</b>
Advanced Certificate in Foreign Language and Area Study	05/03/1989
Certificate in International Business	04/29/1992 <sup>s</sup>
Certificate in Municipal Management (offered one time only)	12/09/1992s <b>eliminated 4-15-2011</b>
Certificate in Industrial Forestry	09/18/1997
Certificate in Mine Design Engineering	01-01-2000 <b>shelved 4-15-2011</b>
Certificate in Media	05/30/2000
Certificate in Writing	05/30/2000
Minor in Music	05/08/2000

Sponsoring Department: Social Sciences  
 American Studies  
 Historical Studies  
 Environmental Studies

International Studies  
Social and Behavioral Studies

Sponsoring Department: Mining Engineering 05/08/2000

Mining

Sponsoring Department: Physics 05/08/2000

Physics  
Astrophysics

Sponsoring Department: Geological Engineering and Sciences 05/08/2000

Earth Sciences  
Geological Engineering

Sponsoring Department: Interdisciplinary Cosponsor: Physics 05/08/2000

Remote Sensing

Sponsoring Department: Humanities 05/08/2000

Communication Studies  
Ethics and Philosophy  
Journalism

Sponsoring Department: Education 05/08/2000

Psychology

Sponsoring Department: Fine Arts 05/08/2000

Music (This is a three track minor under which students select one of three tracks:  
General Music, Music Technology, or Jazz Idiom.)

Presentation

Theatre Arts

Technical Theatre

Art

Sponsoring Department: Computer Science 05/08/2000

Computer Science

Sponsoring Department: Military Science 05/08/2000

Military Arts and Science

Sponsoring Department: Air Force ROTC 05/08/2000

Aerospace Studies

Sponsoring Department: Mathematical Sciences 05/08/2000

Mathematical Sciences

Sponsoring Department: Materials Science and Engineering 05/08/2000

Electronic Materials  
Mineral Processing  
Structural Materials

Sponsoring Department: School of Business and Economics 05/08/2000

Economics

Sponsoring Department: School of Forestry and Wood Products 05/08/2000

Wood Science **shelved 4-15-2011**

Sponsoring Department: Biological Sciences 05/08/2000

Biological Sciences (This is a two track minor with one track in organismal biology and one in cellular and genetic organization of living systems.)  
Microbiology  
Biochemistry

Sponsoring Interdisciplinary, cosponsored by Biological Sciences and SFWP 05/08/2000

Ecology  
Plant Biotechnology  
Plant Sciences

Sponsoring Department: Chemistry 05/08/2000

Chemistry

Certificate in Design Engineering 12/5/2001 **shelved 4-15-2011**

Minors in Modern Language 01/03/2002

French  
German  
Spanish

International Minors in Modern Languages 01/03/2002

French  
German  
Spanish

Enterprise Minor 03/12/2002

Applied Geophysics Minor 03/06/2003

Minor Municipal Engineering 11/25/2003

Minor in Polymer Science and Engineering 02/29/2004

Minor in Manufacturing 03/30/2004

Minor in Product Design 03/30/2004

Minor Speech 4/22-2004 **shelved 4-15-2011**

Certificate Actuarial Science 02/21/2005

Minor Bioprocess Engineering 02/28/2005

Minor Nanoscale Science and Engineering 02/21/2005

Minor Coaching 11/17/2005

Certificate Coaching 11/17/2005

Minor	Electrical Engineering	02/06/2006
Cert. (UG)	International Sustainable Development	11/31/2006
Minor	Diversity Studies	04/18/2007
Certificate	Global Technology Leadership	11/09/2007
Minor, Law and Society		02/18/2008
UGrad Certificate in	Electric Power Engineering	03/19/2008
Minor in	Pharmaceutical Chemistry	04/07/2008
UGrad Certificate	GIS (SFRES)	04/07/2008
Interdisciplinary Minor in	Hydrogen Technology	04/22/2009
Certificate:	Hybrid Electric Drive Vehicle Engineering	04/21/2010
Minor	Fish Biology	01/19/2011
Minor	Data Acquisition and Industrial Control	02/02/2011
Minor	Music	03/31/2011
Certificate:	Teaching English to Speakers of Other Languages	03/21/2011

**Sault Ste. Marie Branch Campus Degrees** mentioned in BOC Minutes (w/meeting date)

04/29/1961	Sault Branch: 2 year program Mechanical Technology
04/10/1965	Associate Degree Nursing
12/17/1965	Associate in Electronics Technology
10/07/1966	New Programs LSSC: Associate Degree in Construction Engineering Associate Degree in Drafting and Design engineering Technology B.A. English, Language, and Literature B.A Social Studies B.S. Medical Technology B.S. Business Administration
12/1/1967	New Programs: 45 hour majors- Mathematics Chemistry History Economics Biology 24 hour minors- Political Science Sociology Geography Economics Speech and Drama

12/06/1968 New Programs:  
Education  
Earth Science Major  
Psychology Major  
Sociology Major  
Electronic Servicing Certificate Program

## Overview of dating each of Michigan Technological University's degrees

This overview explains the methodology for how the degree approval dates were found as listed above in this report. The project began with a request to our provost for beginning and end dates to be used for official start and end program dates in our student information system. A list researched for Michigan Tech's Board of Control by Helene Hiner and kept updated from 1991 to present was used as a starting point. Other source material was located and includes:

- a two-page paper list found in the Office of Student Records and Registration (OSRR) vault of degrees conferred and year in which each degree was added,
- a black three-ring binder, *Degrees Conferred By Name 1888-1974*, found in an OSRR storage room (since relocated to the OSRR vault) which included original listings of names of graduates with specific degrees conferred for those years,
- Degrees offered from each catalog (located in OSRR vault) excluding missing volume from 1943-1944 (possibly not printed due to WWII shortages?)
- Board of Control Minutes books (located in the Administrative Building's fifth floor vault in copy room)
- "Courses" section, Abstract of the Proceedings of the Michigan College of Mining and Technology, Annette L. Sibilsky, 1935 (located in Administrative Building's fifth floor vault), and
- Faculty Senate Minutes (University Senate web site)

Each of these resources was useful as no one source was complete. The list of degrees conferred with year degrees were added was added on to the 1991 detailed listing. This gave a framework of years but no actual approval date. These years were cross-checked with the OSRR catalog information, which proved a bit less accurate in that some years certain degrees were not published as offered – but the degrees were not formally terminated either. Board of Control minutes were used for the year in the conferred list to locate an actual approval date by the board for each degree. There are several M.S. and one Ph.D. that were conferred as regular degrees (not honorary) that have no formal BOC approval date. It may be that an approval granted in 1926 was applied broadly, resulting in the granting of these degrees. The degrees are those marked with a 'c' after the **year** and no month/day.

Matching exact BOC dates to year-conferred was made somewhat less tedious and less prone to errors with the discovery of Annette Sibilsky's 1935 Abstracts which summarized BOC minutes from 1888 to 1935 in a set of typed, tabulated, black, binder-formatted cross references. The original, older BOC minutes are all hand-written in beautiful, albeit difficult to

read, script. Once found in Annette Sibilsky's abstract, the actual BOC minutes were checked for corroboration.

Faculty Senate began formally here at Michigan Tech in 1959, with minutes now published to the University Senate website. There were some degrees where no BOC approval date was found but there was a Senate approval. Those degrees have the full date followed by 's'. There also were some degrees which are mentioned in Sibilsky's abstract which do not have exactly the same mention in the BOC minutes. Those degrees (which do show they were conferred in OSRR records) are listed with the full date followed by 'a'.

One interesting finding is that there are relatively few degrees that have been formally ended through today's process with the Senate, BOC, and state. This seems to be a relatively recent process. Those Bachelors', Associates', and Minors' are listed under the titles with '**Suspended/Eliminated**' list these degrees with **suspended** or **eliminated** specified when found. I found no evidence of any advanced degrees being formally suspended. I have not cross-checked but it would not be difficult to come up with a list of degrees that we currently do not offer but are not formally suspended/eliminated. This may be done by determining if the degree in question is listed with a start or conferred date and is *not* listed under the '**Suspended/Eliminated**' listing.

Finally, Lake Superior State University is no longer a Michigan Tech satellite campus but was at one time. Since references were found for degrees specifically approved for that location during the time it was affiliated with Michigan Tech, I have listed those separately, at the end of the report. –Helene Hiner, March 2009