



Michigan Technological University

Academic Program Codes Academic Year 2022-2023

Program/Degree Option	Major Code
College of Business – 2110	
General Business	BGN
Accounting (BS) (MS)	BACC
Data Analytics (Conc)	BAC1
Economics (BS)	BEC
Engineering Management (BS)	BEM
Engineering Management (MEM)	BMEM
Finance (BS)	BFIN
Management (BS)	BMGT
Entrepreneurship (Conc)	BMG2
Supply Chain and Operations Management (Conc)	BMG1
Management Information Systems (BS)	BMIS
Marketing (BS)	BMKT
Applied Natural Resource Economics (MS)	BNRE
Master of Business Administration (MBA)	BMBA
Business (Minor)	BUSM
Business IT Solutions (Minor)	BITM
Economics (Minor)	BECM
Entrepreneurship, Technology, and Innovation (Minor)	BETM
Financial Technology (Minor)	BFTM
Global Business (Minor)	BGBM
Accounting Analytics (GR Certificate)	CAA
Forensic Accounting (GR Certificate)	CFA
Natural Resource and Environmental Economics (GR Certificate)	CNRE

Program/Degree Option	Major Code
College of Computing – 2150	
General Computing	CGN
<i>Applied Computing - 2170</i>	
Computer Network and System Administration (BS)	TCSA
Cybersecurity* (BS)	CCY
Software Security (Conc)	CCY1
System and Network Security (Conc)	CCY2
Electrical Engineering Technology (BS)	TEET
Health Informatics (MS)	CHI
Cybersecurity (Minor)	TCYM
Data Acquisition and Industrial Control (Minor)	TDAC
Artificial Intelligence in Healthcare (GR Certificate)	CAIH
Automation and Controls in Mechatronic Systems (GR Certificate)	CACM
Industrial Robotics (GR Certificate)	CIR
Security and Privacy in Healthcare (GR Certificate)	CSPH
<i>Computer Science - 2440</i>	
Computer Science* (BS) (MS) (PhD)	SCS
Applications (Conc)	SCS1
Computer Science (Conc)	SCS2
Computer Systems (Conc)	SCS6
Game Development (Conc)	SCS7
Software Engineering (BS)	SSEN
Cybersecurity (MS)	SCSC
Data Science (MS)	IDS
Computer Science (Minor)	SCSM
Data Science Foundations (GR Certificate)	IDSF

Program/Degree Option	Major Code
College of Engineering – 2205	
General Engineering	EGN
<i>Biomedical Engineering - 2265</i>	
Biomedical Engineering (BS) (MS) (PhD)	EBE
Engineering Enterprise (Conc)	EBEE
Biomaterials (Minor)	EBMM
Biomedical Engineering (Minor)	EBEM
Medical Devices & Instrumentation (Minor)	EMDM
Tissue & Stem Cell Engineering (Minor)	ETSM
Medical Devices and Technologies (GR Certificate)	CMDT
Medical Imaging (GR Certificate)	CMI
<i>Chemical Engineering - 2220</i>	
Chemical Engineering (BS) (MS) (PhD)	ECM
Engineering Enterprise (Conc)	ECME
Mineral Processing (Minor)	CMMP
Polymer Science and Engineering (Minor)	ECMM
Engineering Sustainability and Resilience (GR Certificate)	CESR
Profit-Increasing Strategies in Chemical Processing (GR Certificate)	CCP
<i>Civil, Environmental, and Geospatial Engineering - 2240</i>	
Civil Engineering (BS) (MS) (PhD)	ECE
Engineering Enterprise (Conc)	ECEE
Environmental Engineering (BS) (MS)	EEN
Engineering Enterprise (Conc)	EENE
Geospatial Engineering (BS)	ECGE
Environmental Engineering Science (MS)	EENS
Integrated Geospatial Technology (MS)	TGT
Humanitarian Engineering (Minor)	ECHM
Municipal Engineering (Minor)	ECEM
Rail Transportation (Minor)	ECRM
Surveying (Minor)	TSUM
Advanced Photogrammetry and Mapping with UAS (GR Certificate)	CAPM
Geospatial Data Science and Technology (GR Certificate)	CGDS
Resilient Water Infrastructure (GR Certificate)	CRWI
Structural Engineering: Advanced Analysis (GR Certificate)	CSEA
Structural Engineering: Bridge Analysis and Design (GR Certificate)	CSEB
Structural Engineering: Building Design (GR Certificate)	CSED
Structural Engineering: Hazard Analysis (GR Certificate)	CSEH
Structural Engineering: Timber Building Design (GR Certificate)	CSET
Sustainable Pavement Design and Construction (GR Certificate)	CSPD
Water Resources Modeling (GR Certificate)	CWRM
Water, Sanitation, and Hygiene (WASH) (GR Certificate)	CWSH

*Major cannot be pursued without a concentration.

Program/Degree Option	Major Code
College of Engineering – Continued	
<i>Electrical and Computer Engineering - 2250</i>	
Computer Engineering (BS) (PhD)	ECP
Computer Engineering Enterprise (Conc)	ECPE
Electrical and Computer Engineering (MS)	EECE
Electrical Engineering (BS) (PhD)	EEE
Biomedical Applications (Conc)	EEEB
Electric Power Engineering (Conc)	EEEW
Engineering Enterprise (Conc)	EEEE
Environmental Applications (Conc)	EEEV
Photonics (Conc)	EEEP
Robotics Engineering (BS)	ERE
Electrical Engineering (Minor)	EEEM
Electric Power Engineering (Certificate)	CEPE
Advanced Electric Power Engineering (GR Certificate)	CAEP
Electronics Materials and Processing (GR Certificate)	CEMP
Network and Communication Systems (GR Certificate)	CNCS
Signal and Image Processing (GR Certificate)	CSIP
<i>Engineering Fundamentals - 2210</i>	
Engineering (BS)	EBS
Systems Engineering (Minor)	ESEM
<i>Geological and Mining Engineering and Sciences - 2255</i>	
Applied Geophysics (BS)	EAG
Geological Engineering (BS) (MS) (PhD)	EGE
Engineering Enterprise (Conc)	EGEE
Geology (BS) (MS) (PhD)	EGL
Geophysics (MS) (PhD)	EGP
Mining Engineering (BS) (MS) (PhD)	EMG
Applied Geophysics (Minor)	EAGM
Earth Sciences (Minor)	EGLM
Geological Engineering (Minor)	EGEM
Mining (Minor)	EMGM
Geoinformatics (GR Certificate)	CGEO
Natural Hazards and Disaster Risk Reduction (GR Certificate)	CNHD
<i>Manufacturing and Mechanical Engineering Technology - 2290</i>	
Mechanical Engineering Technology (BS)	TMET
Manufacturing Engineering (MS)	EMME
Manufacturing Systems (Minor)	EMSM
Fluid Power in Mechatronic Systems (GR Certificate)	CFPM
Manufacturing Engineering (GR Certificate)	CME
<i>Materials Science and Engineering - 2270</i>	
Materials Science and Engineering (BS) (MS) (PhD)	EMSE
Engineering Enterprise (Conc)	MSEE
Electronic Materials (Minor)	MSEM
Structural Materials (Minor)	MSSM
Computational Materials Science (GR Certificate)	CMSC
Fundamentals of Materials Engineering (GR Certificate)	CMSF
<i>Mechanical Engineering – Engineering Mechanics - 2260</i>	
Mechanical Engineering (BS) (MS)	EME
Engineering Enterprise (Conc)	EMEE
Engineering Mechanics (MS)	EEM
Mechanical Engineering-Engineering Mechanics (PhD)	MEEM
Aerospace Engineering (Minor)	EMAE
Manufacturing (Minor)	EMMF
Naval Systems Engineering (Minor)	EMNS
Aerodynamics (GR Certificate)	AERC
Automotive Systems and Controls (GR Certificate)	IASC
Computational Fluid Dynamics (GR Certificate)	CCFD

Program/Degree Option	Major Code
College of Engineering – Continued	
<i>ME–EM - Continued</i>	
Control Systems (GR Certificate)	CCS
Dynamic Systems (GR Certificate)	CDS
Hybrid Electric Drive Vehicle Engineering (GR Certificate)	CHEV
Quality Engineering (GR Certificate)	CQE
Safety and Security of Autonomous Cyber-Physical Systems (GR Certificate)	ISSC
Vehicle Dynamics (GR Certificate)	CVD
College of Forest Resources and Environmental Science – 2310	
General Forestry	FGN
Applied Ecology and Environmental Sciences (BS)	FES
Environmental Science and Sustainability (BS)	FESS
Forestry (BS) (MS)	FFR
Natural Resources Management (BS)	FNRM
Sustainable Bioproducts* (BS)	FSB
Bioproducts Business (Conc)	FSB1
Circular Economy (Conc)	FSB3
Sustainable Structures (Conc)	FSB2
Wildlife Ecology and Conservation (BS)	FWEC
Applied Ecology (MS)	FAE
Forest Ecology and Management (MS)	FFEM
Forest Molecular Genetics and Biotechnology (MS) (PhD)	FMGB
Forest Science (PhD)	FFS
Master of Forestry (MF)	FMF
Master of Geographic Information Science (MGIS)	FGIS
Sustainable Biomaterials (Minor)	FSBM
College of Sciences and Arts – 2405	
General Sciences and Arts	SGSA
<i>Aerospace Studies (Air Force ROTC) - 2485</i>	
Aerospace Studies (Minor)	AFAS
<i>Military Science (Army ROTC) - 2480</i>	
Military Arts and Science (Minor)	AMAS
<i>Biological Sciences - 2410</i>	
Biochemistry and Molecular Biology (BS)	SMBB
Biological Sciences (BS) (MS) (PhD)	SBL
Computational Biology (BS)	SCB
Ecology and Evolutionary Biology (BS)	SEEB
Human Biology (BS)	SHB
Medical Laboratory Science* (BS)	SML
3+1 (Conc)	SML8
4+1 (Conc)	SML9
3+1 Cytotechnology (Conc)	SML4
4+1 Cytotechnology (Conc)	SML6
4+1 Histotechnology (Conc)	SML7
Biochemistry (Minor)	BLBC
Biological Sciences (Minor)	SBLM
Cellular or Genetic Track	BLGT
Organismal Track	BLOT
Fish Biology (Minor)	BLFB
Microbiology (Minor)	BLMB
Pre-Health Professions (Minor)	BLPH
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Program/Degree Option	Major Code
College of Sciences and Arts – Continued	

<i>Chemistry - 2230</i>	
Biochemistry and Molecular Biology (BS)	SMBC
Chemistry (BA)	SCA
Pre-Pharmacy (Conc)	SCA1
Chemistry (BS) (MS) (PhD)	SCH
Biochemistry (Conc)	SCH2
Chemical Physics (Conc)	SCH4
Environmental (Conc)	SCH5
Polymers (Conc)	SCH1
Computational Chemistry and Chemical Informatics (BS)	SCCC
Medicinal Chemistry (BS)	SCMC
Chemistry (Minor)	SCHM
Medicinal Chemistry (Minor)	SMCM

<i>Cognitive and Learning Sciences - 2600</i>	
Human Factors (BS)	SHF
Systems Thinking and Design (Conc)	SHF1
Human-Computer Interface Design (Conc)	SHF2
Innovation and Human-Centered Design (Conc)	SHF3
Psychology (BS)	SPSY
Clinical/Counseling Psychology (Conc)	SPS1
Cognitive Psychology (Conc)	SPS2
Social Psychology (Conc)	SPS3
Applied Cognitive Science and Human Factors (MS) (PhD)	SACS
Psychology (Minor)	PSYM
Post-Secondary STEM Education (GR Certificate)	CPSE

<i>Humanities - 2420</i>	
Humanities (ASC)	SAH
Communication, Culture, and Media (BA)	SCCM
English (BA)	SEN
Liberal Arts (BA)	SHU
Scientific and Technical Communication (BA)	STA
Scientific and Technical Communication (BS)	STC
Rhetoric, Theory and Culture (MS) (PhD)	SRTC
Bioethics (Minor)	HUB
Communication Studies (Minor)	HUCS
Diversity Studies (Minor)	HUDS
Ethics and Philosophy (Minor)	HUEP
French (Minor)	HUF
French International (Minor)	HUIF
German (Minor)	HUG
German International (Minor)	HUIG
Journalism (Minor)	HUJN
Media Production (Minor)	HUME
Spanish (Minor)	HUS
Spanish International (Minor)	HUIS
Writing (Minor)	HUW

<i>Kinesiology and Integrative Physiology - 2450</i>	
Exercise Science (BS)	SESC
Sports and Fitness Management (BS)	SSFM
Integrative Physiology (PhD)	SKIP
Kinesiology (MS)	SKIN
Coaching Fundamentals (Minor)	PECF
Public Health (Minor)	PHM
Coaching Endorsement (Certificate)	CCE

<i>Mathematical Sciences - 2430</i>	
Business Analytics (BS)	SBA

Program/Degree Option	Major Code
College of Sciences and Arts – Continued	

<i>Mathematical Sciences - Continued</i>	
Mathematics* (BS)	SMA
Actuarial Science (Conc)	SMA6
Applied/Computational (Conc)	SMA8
Business Analytics (Conc)	SMA0
Discrete Mathematics (Conc)	SMA5
Education Preparation (Conc)	SMA9
General Mathematics (Conc)	SMA2
Mathematics and Computer Science (BS)	SMCS
Statistics (BS) (MS) (PhD)	SST
Applied Statistics (MS)	SAST
Mathematical Sciences (MS) (PhD)	SMAG
Mathematical Sciences (Minor)	SMAM
Statistics (Minor)	SSTM
Actuarial Science (Certificate)	CASC
Business Analytics (Certificate)	CBA
Applied Statistics (GR Certificate)	CAS
Scientific Computing (GR Certificate)	CSC

<i>Physics - 2460</i>	
Applied Physics (BS) (MS) (PhD)	SAP
Physics (BA)	SPA
Physics (BS) (MS) (PhD)	SPH
Astrophysics (Minor)	SPHA
Physics (Minor)	SPHM
Advanced Computational Physics (GR Certificate)	CACP
Big Data Statistics in Astrophysics (GR Certificate)	CBDS
Frontiers in Materials Physics (GR Certificate)	CFMP
Frontiers in Optics and Photonics (GR Certificate)	CFOP

<i>Social Sciences - 2470</i>	
Anthropology (BS)	SANT
History (BA)	SSH
Policy and Community Development (BS)	SPCD
Law (Conc)	SPC1
Environment (Conc)	SPC2
Health (Conc)	SPC3
Social Sciences (BS)	SSS
Policy, Law, and Society (Conc)	SSS5
Sustainability Science and Society (BS)	SSSU
Environmental and Energy Policy (MS) (PhD)	SEEP
Industrial Heritage and Archaeology (MS) (PhD)	SIHA
Sustainable Communities (MS)	SSSC
American Studies (Minor)	SSAS
Global Community Development Partnerships (Minor)	IMGC
Global Studies (Minor)	SSGS
Historical Studies (Minor)	SSHs
Law and Society (Minor)	SSLS
Social and Behavioral Studies (Minor)	SSBH
Sustainability Science and Society (Minor)	SSSM
Public Policy (GR Certificate)	CSPP

<i>Visual and Performing Arts - 2415</i>	
Audio Production and Technology (BS)	SFAT
Sound Design (BA)	SFSD
Theatre and Electronic Media Performance (BA)	SEMP
Theatre and Entertainment Technology (BS)	SFET
Art (Minor)	FAAR
Jazz Studies (Minor)	FAJS
Music (Minor)	FAMU
Music Composition (Minor)	FAMC
Music Performance (Minor)	FAMP

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College of Sciences and Arts – Continued	
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<i>Visual and Performing Arts - Continued</i>	
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Sound (Minor)	FAS
Technical Theater (Minor)	FATT
Theater Arts (Minor)	FATA
Theatre Performance (Minor)	FATP

Interdisciplinary Programs – Administering Department(s) - 2050	
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Construction Management (BS) – CB/CEGE	TCMG
Mechatronics (BS) – Applied Computing/MMET	IMX
Atmospheric Sciences (PhD) – Grad School	IAS
Biochemistry and Molecular Biology (PhD) – Grad School	IBMB
Engineering (PhD) – Grad School	EPD
Engineering-Computational Science and Engineering (PhD) – Grad School	EPD5
Engineering-Environmental Engineering (PhD) – Grad School	EPD2
Master of Engineering (MEG) – Grad School	EGR
Mechatronics (MS) – Applied Computing	IME
Alternative Energy Technology (Minor) – Chem Eng	IMAE
Bioprocess Engineering (Minor) – Bio Sci/Chem Eng	IMBE
Business of Forestry (Minor) – CB/CFRES	IMBF
Construction Management (Minor) – CB/CEGE	IMCM
Ecology (Minor) – Bio Sci/CFRES	IMEC
Nanoscale Science and Engineering (Minor) – Physics	IMNT
Plant Biotechnology (Minor) – Bio Sci/CFRES	IMPB
Plant Sciences (Minor) – Bio Sci/CFRES	IMPS
Sustainable Water Resources Systems (GR Certificate) – Grad School	ICSW

Pavlis Honors College – 2417	
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Enterprise (Minor)	ENTM
Leadership (Minor)	IMLE

Administrative Major Codes	
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English as a Second Language	IESL
Non-Degree Seeking (Undergraduate level)	NDS
Post-Degree Studies	PDS
Non-Degree Seeking (Graduate level)	NDG