

## B.S. Management Information Systems (BMIS) Degree (Fall 2025 and later)

*This is not an official list of degree requirements. Adjustments may be required due to curriculum changes.*

### First Year – Fall

Course	Prerequisites	Credit
<b>MA1161/1161-Calculus w/Technology (Essential Ed Math)</b>	MA 1032 or MA 1031 or MA 1120 or ALEKS Math Placement >= 76 or CEEB Calculus AB >= 2 or CEEB Calculus BC >= 2 or CEEB Calculus AB Subscore >= 2 or ACT Mathematics >= 26 or SAT MATH SECTION SCORE-M16 >= 610	4-5
<b>BUS2200-Business Law (Essential Ed SHAPE)</b>		3
<b>ACC2000-Accounting Principles I (Essential Ed STEM)</b>		3
<b>UN1013 or 2013-Essential Ed-Seminar</b>		1
<b>UN1015 Composition</b>		3
<b>Total</b>		<b>14-15</b>

### First Year – Spring

Course	Prerequisites	Credit
<b>MA2720 Statistical Methods</b>	MA1030 or MA1032	4
<b>EC2001-Principles of Economics (Essential Ed-Fnd in Human World)</b>	MA1030 or MA1031 or MA1032 or MA1135/1160/1161/1121 ©	3
<b>ACC2100-Accounting Principles II</b>	ACC2000	3
<b>MIS2000-IS/IT Mgt (Essential Ed STEM)</b>		3
<b>Essential Education – Activities for Well-Being and Success</b>		1
<b>Total</b>		<b>14</b>

### Second Year – Fall

Course	Prerequisites	Credit
<b>BUS2300-Quantitative Problem Solving</b>	BUS2100 or MA2720/2720/3710/3720	3
<b>MGT3000-Organizational Behavior</b>	So, Jr or Sr	3
<b>FIN3000-Principles of Finance</b>	ACC2000 and MA1030 or MA1031 or MA1032 or MA1135/1160/1161/1121	3
<b>MIS2100-Intro to Business and Analytics Programming</b>	So, Jr, or Sr	3
<b>Essential Education – Activities for Well-Being and Success</b>		1
<b>Total</b>		<b>13</b>

### Second Year – Spring

Course	Prerequisites	Credit
<b>BUS3000-Intr to Business Analytics</b>	BUS2300	3
<b>MIS3200-Systems Analysis and Design</b>	MIS2100 or CS1122 or CS1131	3
<b>MKT3000-Principles of Marketing</b>		3
<b>MGT2000-Team Dynamics &amp; Decision Making</b>	So, Jr, or Sr	3
<b>Essential Ed Communication Intensive</b>		3
<b>Total</b>		<b>15</b>

### Third Year – Fall

Course	Prerequisites	Credit
<b>OSM3000-Operations &amp; Supply Chain Mgt</b>	MA1135/1160/1161/1121 and MA2710/2720/3710/3720 or EET2010 or BUS2100 or CEE3710 and Jr or Sr	3
<b>MIS3100-Business Database Modeling and Mgt</b>	MIS2000 or MIS2100 or CS1122 or CS1131	3
<b>MIS4000-AI and Emerging Technologies for Business</b>	MIS2100 or CS1122 or CS1131	3
<b>Essential Education – Natural &amp; Physical Science</b>		3
<b>Essential Education – Activities for Well-Being and Success</b>		1
<b>Total</b>		<b>13</b>

### Third Year – Spring

Course	Prerequisites	Credit
<b>Major Elective</b>	See list on back	3
<b>MIS4400-Business Intelligence and Analytics</b>	(MIS2100 or CS1122 or CS1131) and (MIS3100 or CS3425)	3
<b>Major or Domain Elective</b>		3
<b>Essential Education – Intercultural Competency</b>		3
<b>Total</b>		<b>12</b>

### Fourth Year – Fall

Course	Prerequisites	Credit
<b>MGT4000-Strategic Management</b>	Sr and MIS2000 and FIN3000 and OSM3000 and MGT3000 and MKT3000 and BUS2300	3
<b>EC3100-International Economics</b>	EC2001	3
<b>Domain Elective</b>	See list on back	3
<b>Free Electives</b>		Variable based on Academic Planning
<b>Essential Education – Arts &amp; Culture</b>		3
<b>Total</b>		<b>12-?</b>

### Fourth Year – Spring

Course	Prerequisites	Credit
<b>MIS4100-Business Analytics and Information Systems Projects</b>	(MIS2100 and MIS3100 and MIS3200) or (CS2321 and CS3141 and CS3425) or (MIS2100 and MIS3100 and MA3720) and Sr	3
<b>Domain Elective</b>	See list on back	3
<b>Domain Elective</b>	See list on back	
<b>Essential Education Experience</b>		3
<b>Free Electives</b>		Variable based on Academic Planning
<b>Total</b>		<b>12-?</b>

**Grand Total = 120 Credits**

## B.S. Management Information Systems (BMIS) Degree (Fall 2025 and later)

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1. **Essential Education Requirements:** 24 total credits. Required courses are *Essential Ed Seminar* (UN1013 or UN2013, 1 credit), *Composition* (UN1015-3 credits), a *Natural and Physical Science* course (3 credits), a *Communication Intensive* course (3 credits), an *Arts & Culture* course (3 credits), an *Intercultural Competency* course (3 credits), an *Essential Education Experience* course (3 credits), and 3 credits of *Activities for Well-being and Success*. The Essential Education and Activities for Well-Being list is available online at: <https://www.mtu.edu/registrar/pdfs/essential-education-course-lists-2025-2026.pdf>
  
2. **MIS Electives:** 3-6 credits
 

<ul style="list-style-type: none"> <li>• <b>MIS3000</b>-Business Process Mgt and Automation (3 cr); Sp</li> <li>• <b>MIS4200</b>-Mgt of Cyber Security (3 cr); On Demand</li>   <li>• <b>MIS4500-System Design for Innov and Entrepreneurship</b> (1 cr repeatable to 6)</li>   <li>• <b>MIS4990</b>-Special Topics in MIS (3 cr, max 6); On Demand</li> <li>• <b>Any MIS Course that is 3000 or 4000 level</b></li> </ul>	<p><b>PREREQS:</b></p> <p>MIS2000            MIS2000 or MIS2100 or CS1111 or CS1122 or CS1131 &amp; Jr or Sr            MIS2000 © or MIS2100 © or CS1111 © or CS1122 © or CS1131 © or SAT1200 © and instructor's permission            MIS2000 or MIS2100 or CS1122 or CS1131</p>
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<p><b>Domain Electives:</b> 9-12 credits from <b>ONE</b> domain</p> <p>Accounting Domain Knowledge</p> <ul style="list-style-type: none"> <li>• <b>ACC4000</b>-Accounting Data Analytics (3 cr); Sp</li> <li>• <b>ACC4100</b>-Audit and Assurance (3 cr); F</li> <li>• <b>ACC4800</b>-Accounting Systems (3 cr); F</li> <li>• <b>Any ACC Course that is 3000 or 4000 level</b></li> </ul> <p>Finance Domain Knowledge</p> <ul style="list-style-type: none"> <li>• <b>FIN4000</b>-Investment Analysis (3 cr); F</li> <li>• <b>FIN4100</b>-Advanced Financial Management (3 cr); F</li> <li>• <b>FIN4600</b>-FinTech Foundations (3 cr); F</li> <li>• <b>Any FIN Course that is 3000 or 4000 level</b></li> </ul> <p>Management Domain Knowledge</p> <ul style="list-style-type: none"> <li>• <b>MGT4500</b>-Managing Change (3 cr); Sp</li> <li>• <b>MGT4600</b>-Mangement of Technology and Innovation (3 cr); F, Sp, Su</li> <li>• <b>OSM4300</b>-Project Management (3 cr); F, Sp, Su</li> <li>• <b>Any MGT Course that is 3000 or 4000 level</b></li> </ul> <p>Marketing Domain Knowledge</p> <ul style="list-style-type: none"> <li>• <b>MKT3600</b>-Marketing Data Analytics (3 cr); Sp</li> <li>• <b>MKT4100</b>-Sales and Sales Technology (3 cr); F</li> <li>• <b>MKT4500</b>-Digital Media Marketing (3 cr); Sp</li> <li>• <b>Any MKT Course that is 3000 or 4000 level</b></li> </ul> <p>Supply Chain and Operations Domain Knowledge</p> <ul style="list-style-type: none"> <li>• <b>OSM3600</b>-Procurement and Supply Management (3 cr); F</li> <li>• <b>OSM4650</b>-Six Sigma Fundamentals (3 cr); F, Sp</li> <li>• <b>OSM4700</b>-Logistics and Transportation Mgt (3 cr); Sp</li> <li>• <b>Any OSM Course that is 3000 or 4000 level</b></li> </ul> <p>Data Analytics (prep for MS Data Science) Domain Knowledge</p> <ul style="list-style-type: none"> <li>• <b>EC4200</b>-Econometrics (3 cr); F</li> <li>• <b>MA2330</b>-Introduction to Linear Algebra (3 cr); F, Sp</li> <li>• <b>MA3740</b>-Statistical Programming and Analysis (3 cr); F, Sp</li> <li>• <b>MA4710</b>-Regression Analysis (3 cr); F, Su</li> </ul> <p>Cybersecurity and Networking Domain Knowledge</p> <ul style="list-style-type: none"> <li>• <b>SAT2343</b>-Network Administration 1: Net Fundamentals (3 cr); F, Su</li> <li>• <b>SAT2711</b>-Linux Fundamentals (3 cr); F, Su</li> <li>• <b>SAT3310</b>-Scripting for Administration, Automation and Security (3 cr), Sp, Su</li> <li>• <b>SAT3812</b>-Cyber Security 1 (3 cr); F, Sp, Su</li> </ul>	<p><b>PREREQS:</b></p> <p>ACC2000 and ACC3000©            ACC3000            ACC2100</p> <p>FIN3000 or EC3400 and MA2710/2720/3710            FIN3000 or EC3400            FIN3000 or EC3400</p> <p>Jr and above and MGT3000            Jr and above            Jr and above</p> <p>MKT3000 and BUS2100            or MA2720/2720/3710/3720            MKT3000            MKT3000</p> <p>Jr and above            or MA2720/2720/3710/3720            MA2720/2720/3710/3720 and Jr and above            OSM3000 and Jr and above &amp; MA2720</p> <p>(EC2001/3002/3003) and            (BUS2100 or MA2720/2720/3710)            MA1135/1160/1161/1121            MA2710 or MA2720 or MA3710 or MA3715            MA2710 or MA2720 or MA3710 or MA3715</p> <p>So and above</p> <p>SAT1200 or CS1111© or CS1121/1131/1142 or MIS2100            CS111/1121/1131/1141 or MIS2100            SAT2711 or CS2321 or MIS3200</p>
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### Experiential Domain Knowledge

- **BUS3900**-Business Internship (1-4 cr); By Arrangement
- **ENT Team Credits:** 1960, 2950, 2960, 3950, 3960 (1 cr)
- **ENT4900 or 4910**-Senior Enterprise (2 cr)

[Submit Proposal in advance](#)

Ask Enterprise Advisor/Pavlis advice  
Sr and Enterprise Advisor/Pavlis advice

### Health Informatics Domain Knowledge

- **SAT4114**-Artificial Intelligence in Healthcare (3 cr); Sp
- **SAT4650**-Intro to Applied Computing in Python Programming (3 cr); F, Sp
- **See advisor for additional 3000 or 4000 course approval**

SAT4650 and So and above  
Jr and above

### Computing Domain Knowledge

- **CS1121**- Intro to Programming I (3 cr); F, Sp, Su
- **CS1122**-Intro to Programming II (3 cr); F, Sp, Su
- **CS1131**-Accelerated Intro to Programming (5 cr); F
  
- **CS2311**-Discrete Structures (3 cr); F, Sp
- **CS2321**-Data Structures (3 cr); F, Sp
  
- **CS4821**-Data Mining (3 cr); Sp

MA1031© or MA1032© or MA1120©  
CS1121  
Coreq of MA1031/1032/1120/1160/1161 or 1121 and  
Permission required  
(CS 1121 or CS 1131) and MA1135/1160/1161/1121  
CS1122 or CS1131  
  
(CS 3425 or MIS 3100 or SAT 3210) and  
(MA 2330/2320/2321) and (MA 2710/2720/3710)

### **TOTAL ELECTIVES MUST BE 15 CREDITS**

3. **Prerequisite** (pre-req) course must be successfully completed **PRIOR** to taking the subsequent course.  
**Concurrent Prerequisites** (concurrent noted by ©) may be taken at the same time, although it is not necessary if the prerequisite course is completed first.  
**Required Corequisite** (co-req) courses that **MUST** be taken together in the same semester.  
**Class Standing:** So (Sophomore Standing earned 30 credits) Jr (Junior Standing earned 60 credits), Sr (Senior Standing earned 90 credits)  
**Semester Offered:** Noted under electives with F (Fall), Sp (Spring), Su (Summer) or On Demand (no anticipated offering but may show in the schedule, consult COB advisor)
4. **Math:** Students are placed into an initial math course based on ACT/SAT math score, the online ALEKS assessment, or a math placement exam score for credit (AP, IB, CLEP).
5. **Transfer, Advanced Placement, or study abroad courses** are not included in credit hours used for GPA calculations. Transfer credit is awarded for Michigan Tech equivalent course work only if a grade of 'C' or better (2.00/4.00) or equivalent is earned at a transfer institution. Study abroad credit will be awarded based on passing a course according to equivalent international standards. Advanced Placement credit is awarded according to published AP Exam score standards (also IB and CLEP).

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