





Total Academic Credits.: 123  
+ 3 Co-Curricular Units

Course Subject and Number  
Course Title  
Level Restrict, Course Credits  
Semesters Offered  
(F=Fall, S=Spring,Su=Summer)



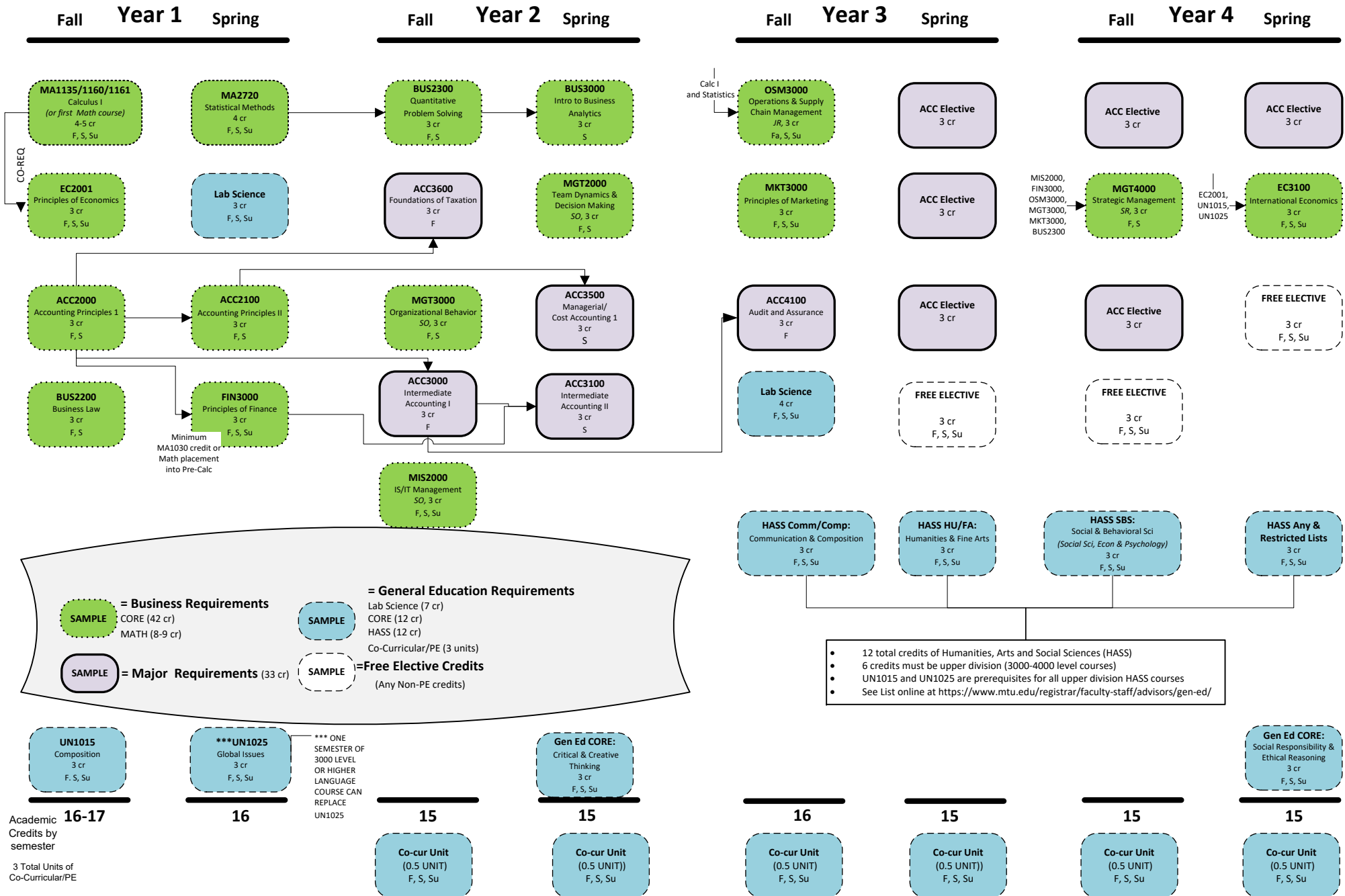
Michigan Tech  
College of Business

# ACCOUNTING <sup>(BACC)</sup> \*FLOWCHART

## 2024-25 Academic Catalog Year

**\*NOTE:**

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- COB courses have some flexibility.
- Note if any pre-requisites or class level required before taking a course.
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**Accounting Elective Courses**

Refer to the online Course Descriptions for further detail, descriptions, pre-requisites, etc.

[www.mtu.edu/catalog/courses/](http://www.mtu.edu/catalog/courses/)

| <b>Accounting Electives: 18 credits</b> |  |     | Typical Semester Offered |
|---|--|-----|--------------------------|
| ACC 4000                                | Accounting Data Analytics                | 3   | Fall                     |
| *ACC 4200                               | Accounting Theory                        | 3   | On Demand                |
| *ACC 4500                               | Managerial/Cost Accounting II            | 3   | On Demand                |
| *ACC 4600                               | Advanced Tax Topics                      | 3   | On Demand                |
| ACC 4700                                | Governmental & Not-for-Profit Accounting | 3   | Spring                   |
| ACC 4800                                | Accounting Systems                       | 3   | Fall                     |
| *ACC 4990                               | Special Topics in Accounting             | 1-6 | On Demand                |
| BUS 3900                                | Business Internship                      | 1-5 | Any Semester             |
| *BUS 4900                               | Research Projects                        | 1-6 | On Demand                |
| *BUS 4950                               | Business Project                         | 1-6 | On Demand                |
| *BUS 4990                               | Special Topics in Business               | 1-6 | On Demand                |
| *BUS 4991                               | Business Development Experience I        | 3   | On Demand                |
| *BUS 4992                               | Business Development Experience II       | 3   | On Demand                |
| EC 3300                                 | Industrial Organization                  | 3   | Fall                     |
| FIN 4000                                | Investment Analysis                      | 3   | Fall                     |
| FIN 4100                                | Advanced Financial Management            | 3   | Fall                     |
| FIN 4200                                | Derivatives and Financial Engineering    | 3   | Spring                   |
| FIN 4300                                | Personal Financial Planning              | 3   | Spring                   |
| *FIN 4400                               | Equity Analysis                          | 3   | On Demand                |
| FIN 4500                                | Risk Management                          | 3   | Spring                   |
| FIN 4700                                | Global Finance                           | 3   | Fall                     |
| FIN 4801                                | Applied Portfolio Management I           | 2   | Summer                   |
| FIN 4802                                | Applied Portfolio Management II          | 2   | Fall                     |
| FIN 4803                                | Applied Portfolio Management III         | 2   | Spring                   |

Total Academic Credits: 123  
+ 3 Co-Curricular Units

Course Subject and Number  
Course Title  
Level Restrict, Course Credits  
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(F=Fall, S=Spring,Su=Summer)

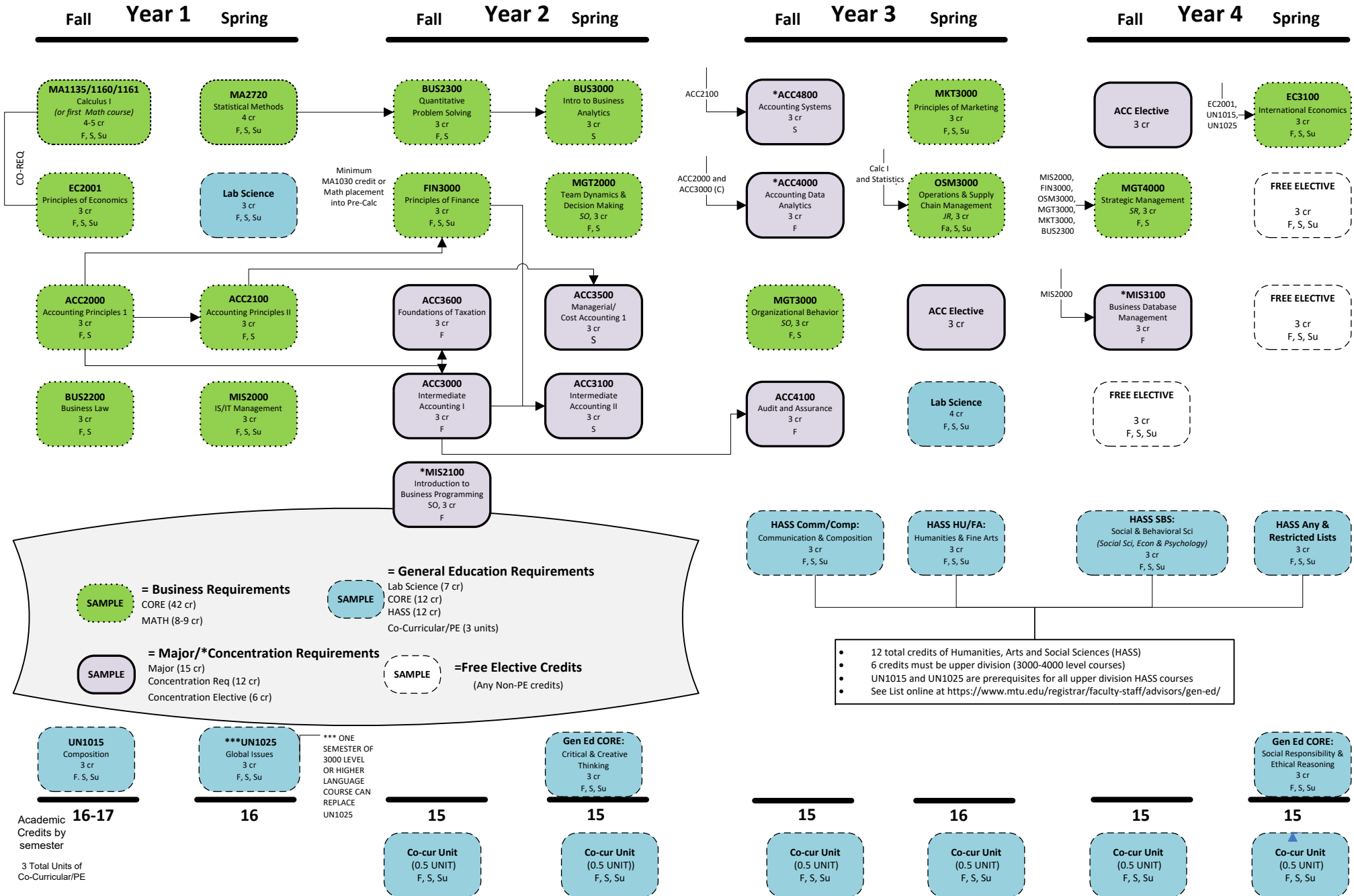


Michigan Tech  
College of Business

# ACCOUNTING w/Data Analytics (BAC1) \*FLOWCHART 2024-25 Academic Catalog Year

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| Concentration Electives: 6 credits |  |     | Typical Semester Offered  |
|------------------------------------|--|-----|---------------------------|
| ACC 4200                           | Accounting Theory                        | 3   | Fall                      |
| ACC 4500                           | Managerial/Cost Accounting II            | 3   | Spring                    |
| *ACC 4600                          | Advanced Tax Topics                      | 3   | On Demand                 |
| ACC 4700                           | Governmental & Not-for-Profit Accounting | 3   | Spring                    |
| *ACC 4990                          | Special Topics in Accounting             | 1-6 | On Demand                 |
| BUS 3900                           | Business Internship                      | 1-5 | Any Semester (must apply) |
| *BUS 4900                          | Research Project                         | 1-6 | On Demand                 |
| *BUS 4950                          | Business Project                         | 1-6 | On Demand                 |
| *BUS 4990                          | Special Topics in Business               | 1-6 | On Demand                 |
| *BUS 4991                          | Business Development Experience I        | 3   | On Demand                 |
| *BUS 4992                          | Business Development Experience II       | 3   | On Demand                 |
| EC 3300                            | Industrial Organization                  | 3   | Fall                      |
| FIN 4000                           | Investment Analysis                      | 3   | Fall                      |
| FIN 4100                           | Advanced Financial Management            | 3   | Fall                      |
| FIN 4200                           | Derivatives and Financial Engineering    | 3   | Spring                    |
| FIN 4300                           | Personal Financial Planning              | 3   | Spring                    |
| *FIN 4400                          | Equity Analysis                          | 3   | On Demand                 |
| FIN 4500                           | Risk Management                          | 3   | Spring                    |
| FIN 4700                           | Global Finance                           | 3   | Fall                      |
| FIN 4801                           | Applied Portfolio Management I           | 2   | Summer                    |
| FIN 4802                           | Applied Portfolio Management II          | 2   | Fall                      |
| FIN 4803                           | Applied Portfolio Management III         | 2   | Spring                    |
| MA 3720                            | Probability                              | 3   | Fall/Summer               |
| MA 3740                            | Statistical Programming and Analysis     | 3   | Fall/Summer               |
| MA 4710                            | Regression Analysis                      | 3   | Fall                      |
| MIS 3000                           | Business Process Analysis                | 3   | Spring                    |
| MIS 3200                           | Systems Analysis and Design              | 3   | Spring                    |
| *MIS 3500                          | User-Centered Design                     | 3   | On Demand                 |
| MIS 4000                           | Emerging Technologies                    | 3   | Fall                      |
| MIS 4200                           | Management of Cyber Security             | 3   | Fall (odd years)          |
| MIS 4400                           | Business Intelligence and Analytics      | 3   | Spring                    |

**Accounting w/ Data Analytics  
Elective Courses**

Refer to the online Course Descriptions for further detail, descriptions, pre-requisites, etc.

[www.mtu.edu/catalog/courses/](http://www.mtu.edu/catalog/courses/)

Total Academic Credits: 120  
+ 3 Co-Curricular Units

Course Subject and Number  
Course Title  
Level Restrict, Course Cr  
Semesters Offered  
(F=Fall, S=Spring, Su=Summer)



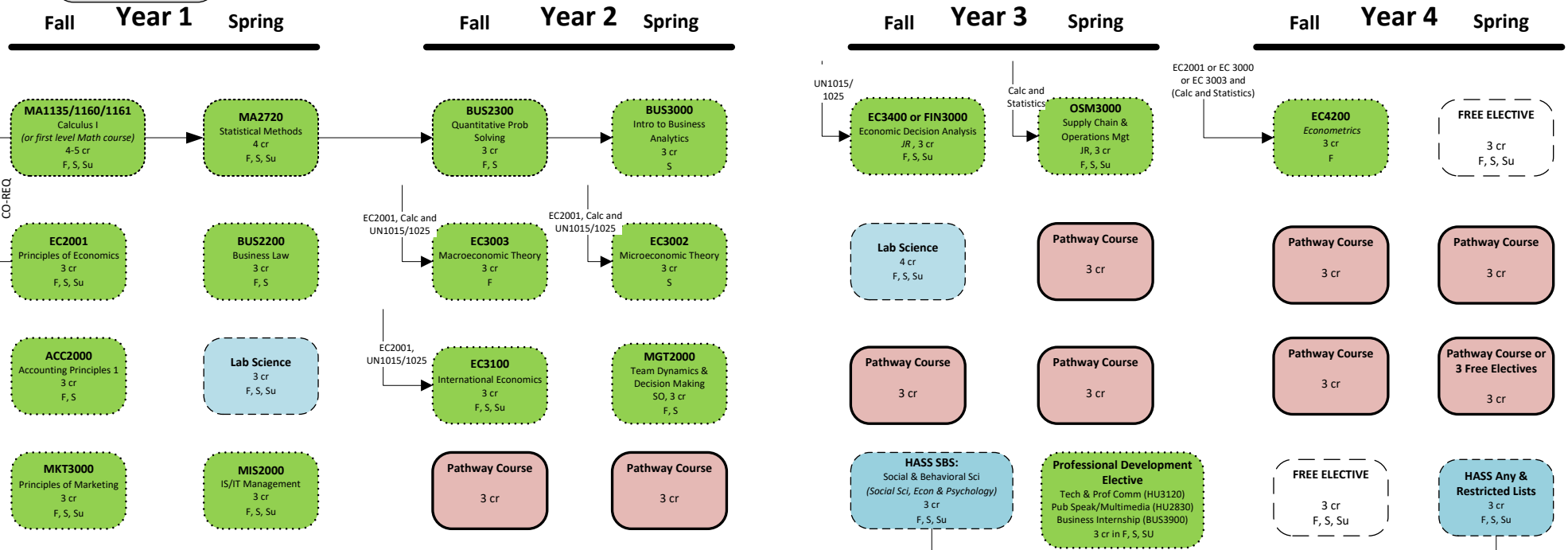
# ECONOMICS (BEC)

## \*FLOWCHART

### 2024-25 Academic Catalog Year

**\*NOTE:**

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- COB courses have some flexibility.
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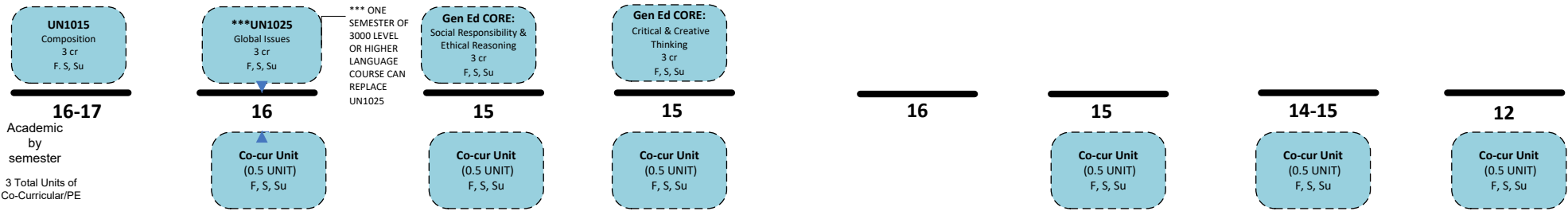
**SAMPLE** = Core Major Requirements  
Economics (18 cr)  
Business Core (24 cr)  
Professional Development (3 cr)  
Math (8-9 cr)

**SAMPLE** = Pathway Options (see back page)  
Analytical Economics (27 cr)  
Business Economics (24 cr)  
Environmental & Natural Resource Economics (24 cr)  
General Economics

**SAMPLE** = Free Elective (8-12 cr)

**SAMPLE** = General Education Requirements  
Lab Science (7 cr)  
CORE (12 cr)  
HASS (12 cr)  
Co-Curricular/PE (3 units)

- 12 total credits of Humanities, Arts and Social Sciences (HASS)
- 6 must be upper division (3000-4000 level courses)
- UN1015 and UN1025 are prerequisites for all upper division HASS courses
- See List online at <https://www.mtu.edu/registrar/faculty-staff/advisors/gen-ed/>





**PATHWAY OPTION 1:**  
 Analytical Economics [27+ credits]  
 Boost economic background with data, programming and math skills. A good fit for students interested in going to grad school for economics or want to pursue careers that involve data analytics.

| Course #                                       | Course Title  | Credits     | Typical Semester Offered          |
|--|---|-------------|-----------------------------------|
| <b>Required Courses (13 credit hours)</b>      |   |             |                                   |
| EC 4100  | Mathematical Economics  | 3           | Spring, odd years                 |
| MIS 3100                                       | Business Database Mgmt  | 3           | Fall                              |
| MA 2160  | Calculus with Technology II   | 4           | All                               |
| CS 1121  | Introduction to Programming I   | 3           | All                               |
| <b>Economics Electives (9-12 credit hours)</b> |   |             |                                   |
| EC 3300  | Industrial Organization   | 3           | Fall                              |
| EC 4050  | Game Theory   | 3           | Spring                            |
| EC 4400  | Banking & Financial Institutions  | 3           | Fall                              |
| EC 4500  | Public Sector Economics   | 3           | On Demand                         |
| EC 4710  | Labor/Human Resource Economics  | 3           | Spring, even years                |
| EC 5300  | Managerial Economics  | 3           | Spring                            |
| EC 4900  | Research  | 1-6         | On Demand                         |
| EC 4930  | Special Topics in Economics   | 1-6         | On Demand                         |
| <b>Other Electives (2-5 credit hours)</b>      |   |             |                                   |
| MIS 2100 or CS1122                             | Intro to Business Programming or Introduction to Programming II                               | 3           | Fall or Any                       |
| MIS 4400                                       | Business Intelligence and Analytics   | 3           | Spring                            |
| MKT 3600                                       | Marketing Data Analytics  | 3           | Spring                            |
| FIN 4600                                       | Financial Technology Foundations  | 3           | Fall                              |
| ACC 4000                                       | Accounting Data Analytics   | 3           | Fall                              |
| MA 3160  | Multivariate Calculus w/ Tech   | 4           | Any                               |
| MA 2320 or MA 2321 or MA 2330                  | Elementary Linear Algebra or Elementary Linear Algebra or Introduction to Linear Algebra      | 2 or 2 or 3 | Any or Fall/Spring or Fall/Spring |
| MA 3520 or MA 3521 or MA 3530                  | Elem Differential Equations or Elem Differential Equations or Intro to Differential Equations | 2 or 2 or 3 | Any or Fall/Spring or Fall/Spring |
| MA 3720  | Probability   | 3           | Fall/Summer                       |
| MA 4780  | Time Series Analysis & Forecasting  | 3           |                                   |
| FW 3540 or GE2010                              | Intro to GIS for Natural Res Mgt or Intro to GIS  | 4 or 3      | Spring or Fall                    |
| GE 3250  | Computational Geosciences   | 3           |                                   |

**PATHWAY OPTION 2:**  
 Business Economics [24 credits]  
 For a strong econ background and round out knowledge of the business fields. A fit for those who want to work in a business environment and collaborate with teammates from other fields or who are interested in pursuing an MBA.

| Course #  | Course Title                            | Credits | Typical Semester Offered |
|---|---|---------|--------------------------|
| <b>Economics Electives (12-15 credit hours)</b> |   |         |                          |
| EC 3300   | Industrial Organization                 | 3       | Fall                     |
| EC 4050   | Game Theory                             | 3       | Spring                   |
| EC 4100   | Mathematical Economics                  | 3       | Spring, odd years        |
| EC 4400   | Banking and Financial Institutions      | 3       | Fall                     |
| EC 4500   | Public Sector Economics                 | 3       | On Demand                |
| EC 4710   | Labor/Human Resource Economics          | 3       | Spring, even years       |
| EC 4900   | Research                                | 1-6     | On Demand                |
| EC 4930   | Special Topics in Economics             | 1-6     | On Demand                |
| <b>Business Electives (9-12 credit hours)</b>   |   |         |                          |
| ACC 2100  | Accounting Principles II                | 3       | Fall/Spring              |
| ACC 3000  | Intermediate Accounting I               | 3       | Fall                     |
| MIS 2100  | Introduction to Business Programming    | 3       | Fall                     |
| MIS 3000  | Business Process Analysis               | 3       | Spring                   |
| MGT 3000  | Organizational Behavior                 | 3       | Fall/Spring              |
| MGT 3800  | Innovation & Entrepreneurship           | 3       | Fall/Spring              |
| FIN 4000  | Investment Analysis                     | 3       | Fall                     |
| FIN 4100  | Advanced Financial Management           | 3       | Fall                     |
| FIN 4801  | Applied Portfolio Management I          | 1-3     | Summer                   |
| FIN 4802  | Applied Portfolio Management II         | 1-3     | Fall                     |
| FIN 4803  | Applied Portfolio Management III        | 1-3     | Spring                   |
| MKT 3200  | Consumer Behavior & Culture             | 3       | Fall                     |
| MKT 3600  | Marketing Data Analytics                | 3       | Spring                   |
| OSM 3150  | Introduction to Supply Chain Management | 3       | Fall                     |
| OSM 3600  | Procurement and Supply Management       | 3       | Fall                     |
| ENG 1101  | Engineering Analysis & Problem Solving  | 3       | Any                      |

**PATHWAY OPTION 3:**  
 Environmental & Natural Resource Economics [24 credits]  
 Natural resources and environmental issues. Complement economic training with courses about resources or environmental issues including policy, sustainability, forestry, water systems, mining, and engineering methods. A good fit for work in natural resource industries and management, government agencies, and policy development

| Course #                                       | Course Title                                      | Credits | Typical Semester Offered |
|--|---|---------|--------------------------|
| <b>Required Courses (6 credits)</b>            |   |         |                          |
| EC 4640  | Natural Resource Economics                        | 3       | Fall                     |
| EC 4650  | Market Failure & Environment                      | 3       | Spring                   |
| <b>Economics Electives (6-12 credit hours)</b> |   |         |                          |
| EC 3300  | Industrial Organization                           | 3       | Fall                     |
| EC 4050  | Game Theory                                       | 3       | Spring                   |
| EC 4100  | Mathematical Economics                            | 3       | Spring, odd years        |
| EC 4500  | Public Sector Economics                           | 3       | On Demand                |
| EC 4620  | Energy Economics                                  | 3       | Spring                   |
| EC 4630  | Mineral Industry Economics                        | 3       | On Demand                |
| EC 4710  | Labor/Human Resource Economics                    | 3       | Spring, even years       |
| EC 4900  | Research  | 1-6     | On Demand                |
| EC 4930  | Special Topics in Economics                       | 1-6     | On Demand                |
| <b>Other Electives (6-12 credit hours)</b>     |   |         |                          |
| FW 2081  | Intro to Circular Economy                         | 3       | Spring                   |
| FW 3510  | Outdoor Recreation and Tourism                    | 3       | Spring                   |
| FW 3540 or GE 2010                             | Intro to GIS for Natural Res Mgt or Intro to GIS  | 4 or 3  | Spring or Fall           |
| FW 4080  | Forest Economics and Finance                      | 2       | Spring                   |
| FW 4545  | Map Design with GIS                               | 2       | Spring, odd years        |
| SS 3110  | Food Systems & Sustainability                     | 3       | Fall                     |
| SS 3313  | Sustainability Science                            | 3       | Fall                     |
| SS 3315  | Population, Health, and the Environment           | 3       | Fall, odd years          |
| SS 3630  | Environmental Policy and Politics                 | 3       | Spring                   |
| SS 3800  | Energy Policy and Technology                      | 3       | Spring/Summer            |
| BL 4421  | Lake Superior Exploration                         | 3       | Summer, odd years        |
| GE 2020  | Intro to Mining Eng. & Mining Methods             | 2       | Fall                     |
| CEE 3502                                       | Environmental Monitoring and Measurement Analysis | 3       | Spring                   |
| CEE 3503                                       | Environmental Engineering                         | 3       | Spring                   |

**PATHWAY OPTION 4:**  
 General Economics [24 credits]  
 Interested in going to Law School? Choose law and policy courses from social sciences. See connections between econ and engineering? Take advantage of everything MTU has to offer and sign up for the courses that interest you.

| Course #  | Course Title                     | Credits | Typical Semester Offered |
|---|----------------------------------|---------|--------------------------|
| <b>Economics Electives (15-18 credit hours)</b> |                                  |         |                          |
| EC 3300   | Industrial Organization          | 3       | Fall                     |
| EC 4050   | Game Theory                      | 3       | Spring                   |
| EC 4100   | Mathematical Economics           | 3       | Spring, odd years        |
| EC 4400   | Banking & Financial Institutions | 3       | Fall                     |
| EC 4500   | Public Sector Economics          | 3       | On Demand                |
| EC 4620   | Energy Economics                 | 3       | Spring                   |
| EC 4630   | Mineral Industry Economics       | 3       | On Demand                |
| EC 4640   | Natural Resource Economics       | 3       | Fall                     |
| EC 4650   | Market Failure & Environment     | 3       | Spring                   |
| EC 4710   | Labor/Human Resource Economics   | 3       | Spring, even years       |
| EC 4900   | Research                         | 1-6     | On Demand                |
| EC 4930   | Special Topics in Economics      | 1-6     | On Demand                |
| <b>Other Free Electives (6-9 credit hours)</b>  |                                  |         |                          |

**Economics Pathway courses;**  
 Refer to the online Course Descriptions for further detail, descriptions, pre-requisites, etc.

[www.mtu.edu/catalog/courses/](http://www.mtu.edu/catalog/courses/)



Total Academic Credits.: 128  
+ 3 Co-Curricular Units



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Course Subject and Number  
Course Title  
Level Restrict, Course Credits  
Semesters Offered  
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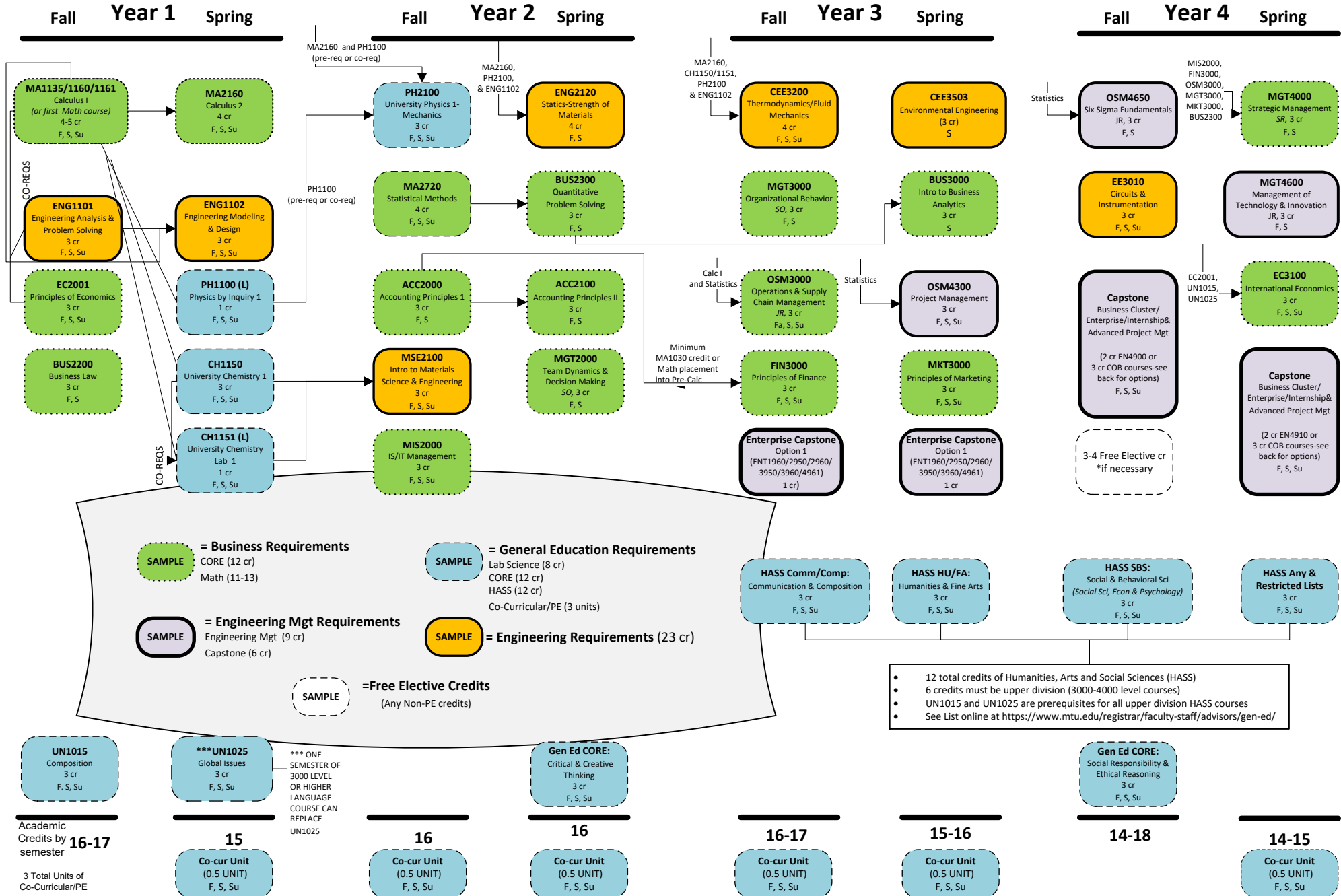
# ENGINEERING MANAGEMENT (BEM)

## \*FLOWCHART

### 2024-25 Academic Catalog Year

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## Engineering Undergrads:

There are options to double major/dual degree with Engineering Management. See COB Academic Advisor. Course substitutions will be made for some courses.

Additionally the COB offers Master's Degree options:

MEM, Master's in Engineering Management

(<https://www.mtu.edu/business/graduate/engineering-management/>)

TechMBA® Program

(<https://www.mtu.edu/business/graduate/techmba/>)

| <b>Capstone Requirements: 6 Credits (choose 1 option below)</b>       |  |   |  | Typical Semester Offering |
|---|--|---|--|---------------------------|
| <b>Option 1: Enterprise Work (must be completed with 4 semesters)</b> |  |   |  |                           |
| ENT 4900  | Sr Enterprise Project Work V Non-Capstone    | 2 |  | Fall/Spring               |
| ENT 4910  | Sr Enterprise Project Work VI Non-Capstone   | 2 |  | Fall/Spring               |
| <b>And select 2 courses below:</b>                                    |  |   |  |                           |
| ENT 1960  | Enterprise Orientation - Spring              | 1 |  | Fall/Spring               |
| ENT 2950  | Enterprise Project Work I                    | 1 |  | Fall/Spring               |
| ENT 2960  | Enterprise Project Work II                   | 1 |  | Fall/Spring               |
| ENT 3950  | Enterprise Project Work III                  | 1 |  | Fall/Spring               |
| ENT 3960  | Enterprise Project Work IV                   | 1 |  | Fall/Spring               |
| ENT 4961  | Enterprise Project Work VII                  | 1 |  | Fall/Spring               |
| <b>Option 2: Business Cluster (select 2 courses with same prefix)</b> |  |   |  |                           |
| ACC 3500  | Managerial/Cost Accounting I                 | 3 |  | Spring                    |
| <b>and</b> ACC 4500   | Managerial/Cost Accounting II                | 3 |  | On Demand                 |
| EC 3300   | Industrial Organization                      | 3 |  | Fall                      |
| <b>and</b> EC 4200  | Econometrics                                 | 3 |  | Fall                      |
| FIN 4100  | Advanced Financial Management                | 3 |  | Fall                      |
| <b>and</b> FIN 4500   | Risk Management                              | 3 |  | Spring                    |
| MGT 3800  | Innovation and Entrepreneurship              | 3 |  | Fall/Spring               |
| <b>and</b> MGT 4650   | Commercialization of Advanced Technologies   | 3 |  | Spring                    |
| MIS 3100  | Business Database Management                 | 3 |  | Fall                      |
| <b>and</b> MIS 3200   | Systems Analysis and Design                  | 3 |  | Spring                    |
| MKT 4100  | Sales and Sales Technology                   | 3 |  | Fall                      |
| <b>and</b> MKT 4200   | Business to Business Mktg in the Digital Age | 3 |  | Spring                    |
| OSM 3150  | Introduction to Supply Chain Management      | 3 |  | Fall                      |
| <b>and</b> OSM 3600   | Procurement & Supply Management              | 3 |  | Fall                      |
| OSM 3150  | Introduction to Supply Chain Management      | 3 |  | Fall                      |
| <b>and</b> OSM 4700   | Logistics & Transportation Management        | 3 |  | Spring                    |
| <b>Option 3: Business Internship/Advanced Project Mgt</b>             |  |   |  |                           |
| BUS 3900  | Business Internship                          | 3 |  | Any Semester              |
| OSM 4350  | Advanced Project Management                  | 3 |  | Spring (must apply)       |

Total Academic Credits.: 120  
+ 3 Co-Curricular Units

Course Subject and Number  
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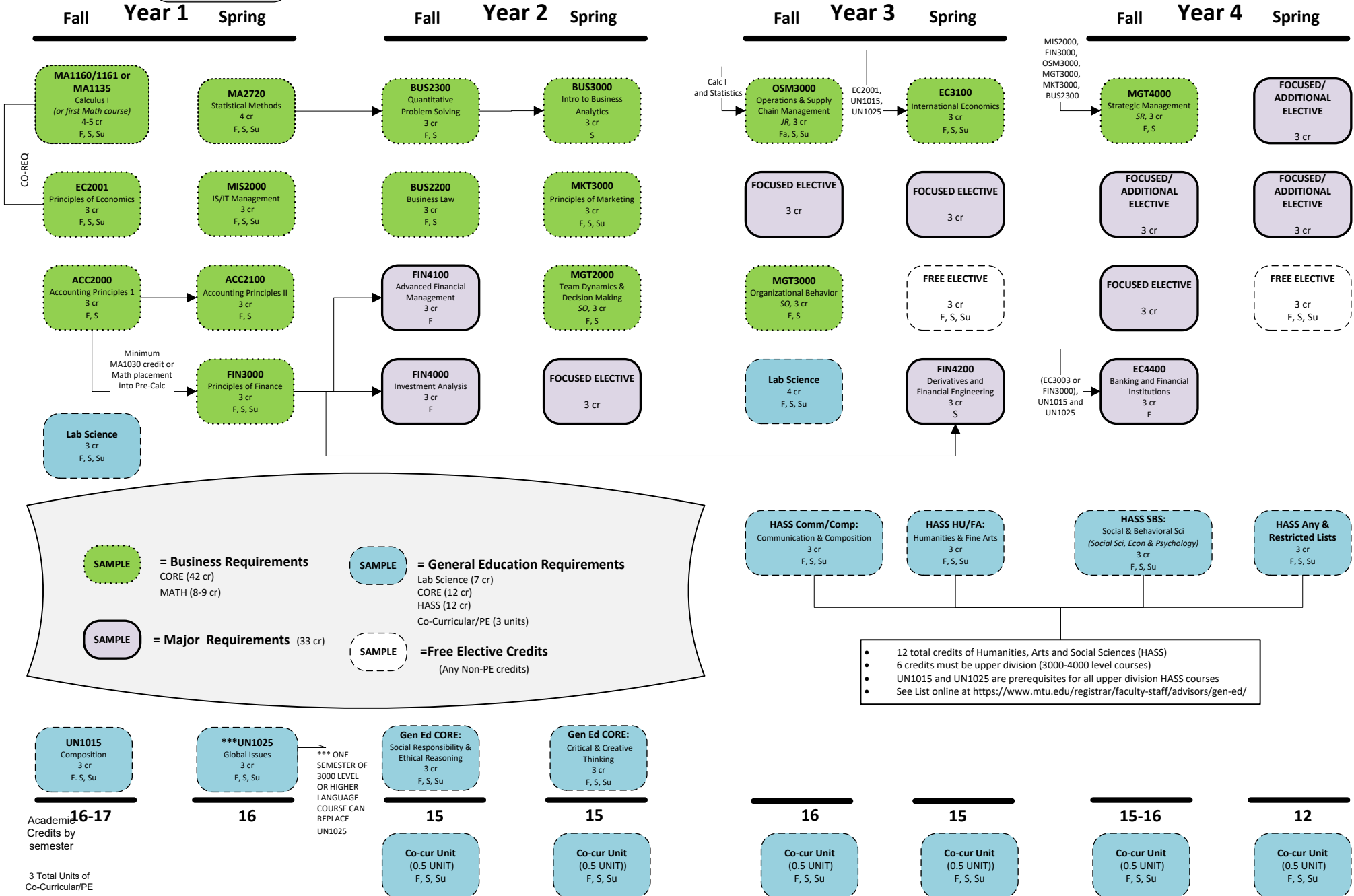
# FINANCE (BFIN)

## \*FLOWCHART

### 2024-25 Academic Catalog Year

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  - COB courses have some flexibility.
  - Note if any pre-requisites or class level required before taking a course.
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### Finance Elective Courses

Refer to the online Course Descriptions for further detail, descriptions, pre-requisites, etc.

[www.mtu.edu/catalog/courses/](http://www.mtu.edu/catalog/courses/)

| Focused Electives: 12-21 credits |                                  |     | Typical Semester Offered |
|----------------------------------|----------------------------------|-----|--------------------------|
| FIN 4300                         | Personal Financial Planning      | 3   | Spring                   |
| *FIN 4400                        | Equity Analysis                  | 3   | On Demand                |
| FIN 4500                         | Risk Management                  | 3   | Spring                   |
| FIN 4600                         | Financial Technology Foundations | 3   | Fall                     |
| FIN 4700                         | Global Finance                   | 3   | Fall                     |
| FIN 4801                         | Applied Portfolio Management I   | 1-3 | Summer                   |
| FIN 4802                         | Applied Portfolio Management II  | 1-3 | Fall                     |
| FIN 4803                         | Applied Portfolio Management III | 1-3 | Spring                   |
| *FIN 4990                        | Special Topics in Finance        | 3   | On Demand                |

| Additional Electives: 0-9 credits |                                      |     |                           |
|-----------------------------------|--------------------------------------|-----|---------------------------|
| ACC 3000                          | Intermediate Accounting I            | 3   | Fall                      |
| ACC 3100                          | Intermediate Accounting II           | 3   | Spring                    |
| ACC 3600                          | Foundations of Taxation              | 3   | Fall                      |
| ACC 4100                          | Audit and Assurance                  | 3   | Fall                      |
| BUS 3900                          | Business Internship                  | 1-5 | Any Semester (must apply) |
| EC 3002                           | Microeconomic Theory                 | 3   | Spring                    |
| EC 4050                           | Game Theory/Strategic Behavior       | 3   | Spring                    |
| EC 4200                           | Econometrics                         | 3   | Fall                      |
| MA 2160                           | Calculus with Technology II          | 4   | Any Semester              |
| MGT 4600                          | Mgmt of Technology and Innovation    | 3   | Any Semester              |
| MIS 2100                          | Introduction to Business Programming | 3   | Fall                      |
| MIS 3100                          | Business Database Management         | 3   | Fall                      |
| MIS 4000                          | Emerging Technologies                | 3   | Fall                      |
| MKT 3600                          | Marketing Data Analytics             | 3   | Spring                    |
| MKT 4100                          | Sales and Sales Technology           | 3   | Fall                      |

Total Academic Credits.: 120  
+ 3 Co-Curricular Units



Course Subject and Number  
Course Title  
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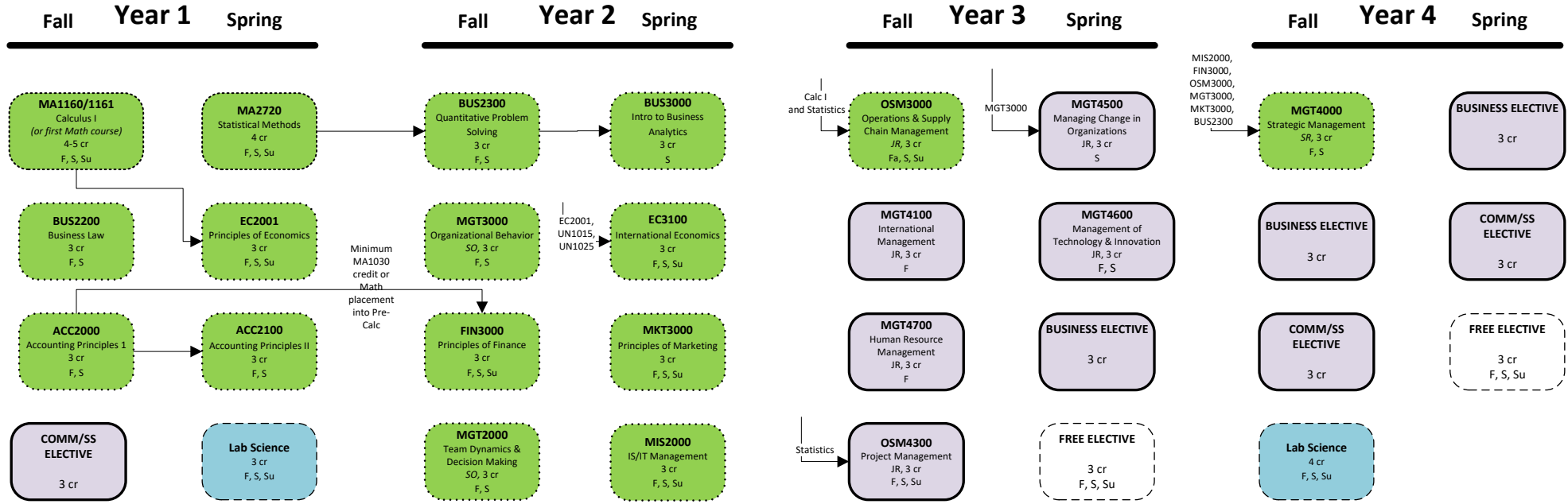
# MANAGEMENT (BMGT)

## \*FLOWCHART

### 2024-25 Academic Catalog Year

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- Note if any pre-requisites or class level required before taking a course.
- Actual Degree requirements are determined by your catalog team
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**Legend:**

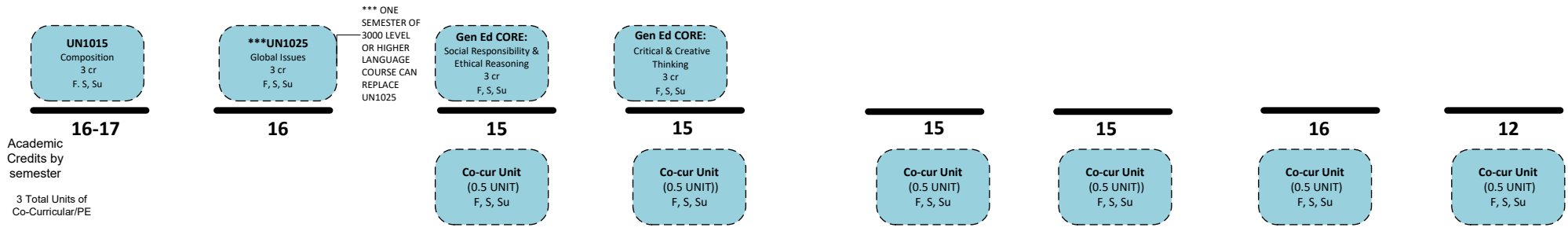
- SAMPLE** = Business Requirements  
CORE (42 cr)  
MATH (8-9 cr)
- SAMPLE** = Major Requirements & Comm/Social Science Electives (33 cr)
- SAMPLE** = General Education Requirements  
Lab Science (7 cr)  
CORE (12 cr)  
HASS (12 cr)  
Co-Curricular/PE (3 units)
- SAMPLE** = Free Elective Credits (Any Non-PE credits)

**HASS Requirements:**

- HASS Comm/Comp:** Communication & Composition (3 cr F, S, Su)
- HASS HU/FA:** Humanities & Fine Arts (3 cr F, S, Su)
- HASS SBS:** Social & Behavioral Sci (Social Sci, Econ & Psychology) (3 cr F, S, Su)
- HASS Any & Restricted Lists:** (3 cr F, S, Su)

**Summary:**

- 12 total credits of Humanities, Arts and Social Sciences (HASS)
- 6 credits must be upper division (3000-4000 level courses)
- UN1015 and UN1025 are prerequisites for all upper division HASS courses
- See List online at <https://www.mtu.edu/registrar/faculty-staff/advisors/gen-ed/>



| <b>Business Electives: 9 credits</b>  |  |     | Typical Semester Offered  |
|---|--|-----|---------------------------|
| BUS 3900  | Business Internship                    | 1-5 | Any Semester (must apply) |
| BUS 4991  | Business Development Experience I      | 3   | On Demand                 |
| BUS 4992  | Business Development Experience II     | 3   | On Demand                 |
| MGT 3100  | Leadership Development                 | 3   | Fall                      |
| MGT 3650  | Intellectual Property Management       | 3   | Spring (even years)       |
| MGT 3800  | Innovation and Entrepreneurship        | 3   | Fall/Spring               |
| MGT 4990  | Special Topics in Management           | 1-6 | On Demand                 |
| OSM 3150  | Intro to Supply Chain Management       | 3   | Fall                      |
| OSM 4350  | Advanced Project Management            | 3   | Spring (must apply)       |
| OSM 4650  | Six Sigma Fundamentals                 | 3   | Fall/Spring               |
| Enterprise Work variable credits of 1-2 credits; max of 6:<br>ENT1960, ENT2950, ENT2960, ENT3950, ENT3960, ENT4900, ENT4961 |  |     |                           |
| <b>Communication &amp; Social Science Electives: 9 credits</b>  |  |     |                           |
| EC 3300   | Industrial Organization                | 3   | Fall                      |
| ENG 4515  | Sustainable Futures I                  | 3   | Fall                      |
| HU 2820   | Communication and Culture              | 3   | Any Semester              |
| HU 2840   | Interpersonal Communication            | 3   | Fall                      |
| HU 3120   | Technical & Professional Communication | 3   | Any Semester              |
| HU 3840   | Organizational Communication           | 3   | Spring                    |
| HU 3850   | Cultural Studies                       | 3   | Fall (odd years)          |
| PSY 2000  | Introduction to Psychology             | 3   | Any Semester              |
| PSY 2200  | Behavior Modification                  | 3   | Fall (even years)         |
| PSY 4010  | Cognitive Psychology                   | 3   | Fall                      |
| PSY 4340  | Culture and Cognition                  | 3   | Fall (odd years)          |

#### Management Elective Courses

Refer to the online Course Descriptions for further detail, descriptions, pre-requisites, etc.

[www.mtu.edu/catalog/courses/](http://www.mtu.edu/catalog/courses/)



Total Academic Credits.: 123  
+ 3 Co-Curricular Units

Course Subject and Number  
Course Title  
Level Restrict, Course Credits  
Semesters Offered  
(F=Fall, S=Spring,Su=Summer)

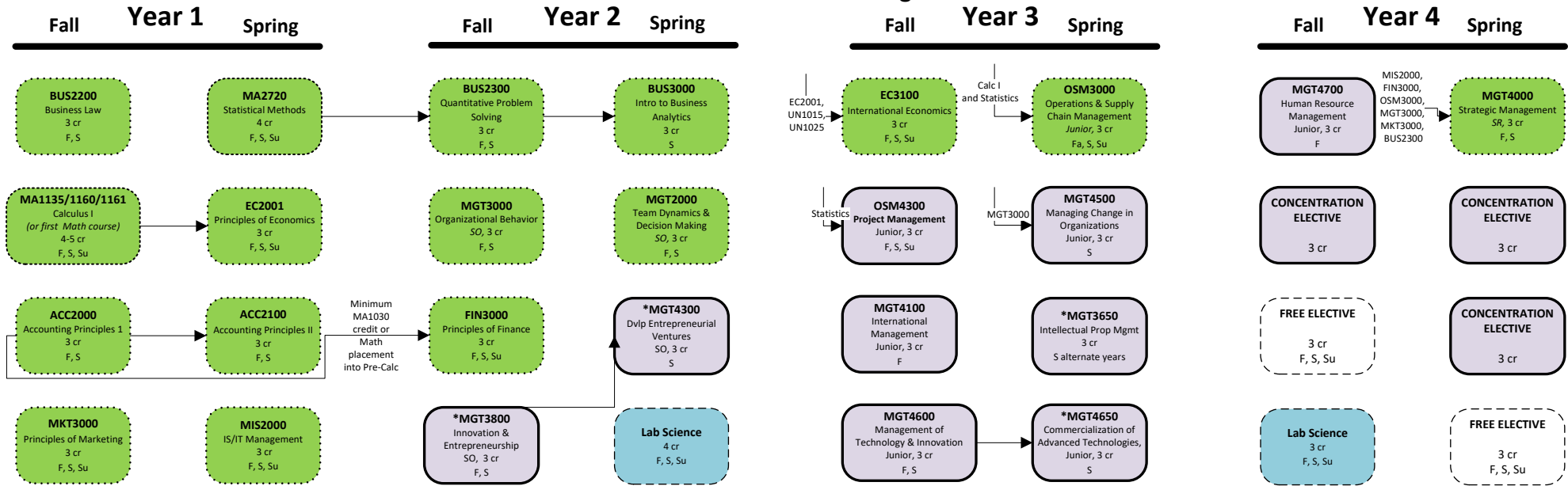


Michigan Tech  
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# MANAGEMENT <sup>(BMG2)</sup> w/Concentration in Entrepreneurship \*FLOWCHART 2024-25 Academic Catalog Year

**\*NOTE:**

- Flowchart is a guide for course sequencing recommendations.
  - COB courses have some flexibility.
  - Note if any pre-requisites or class level required before taking a course.
  - Actual Degree requirements are determined by your catalog term
  - Meet with COB Academic Advisor annually for academic goal planning
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**Legend:**

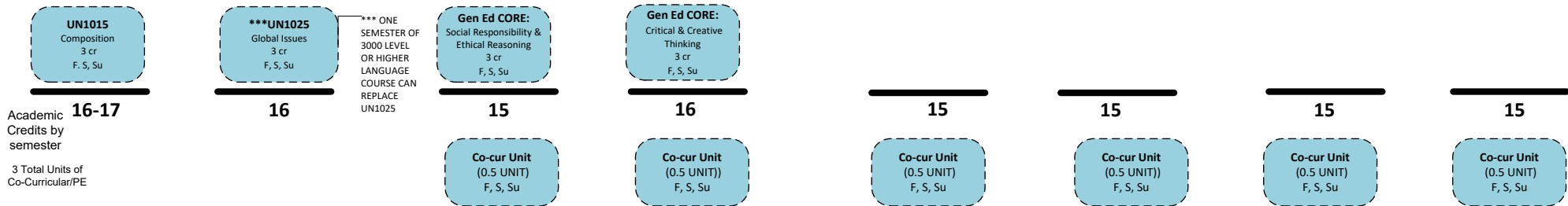
- Business Requirements:** CORE (42 cr), MATH (8-9 cr)
- Major and \*Concentration Requirements:** (33 cr)
- General Education Requirements:** Lab Science (7 cr), CORE (12 cr), HASS (12 cr), Co-Curricular/PE (3 units)
- Free Elective Credits:** (Any Non-PE credits)

**HASS Requirements:**

- HASS Comm/Comp:** Lab Science & Composition (3 cr, F, S, Su)
- HASS HU/FA:** Humanities & Fine Arts (3 cr, F, S, Su)
- HASS SBS:** Social & Behavioral Sci (Social Sci, Econ & Psychology) (3 cr, F, S, Su)
- HASS Any & Restricted Lists:** (3 cr, F, S, Su)

**Summary:**

- 12 total credits of Humanities, Arts and Social Sciences (HASS)
- 6 credits must be upper division (3000-4000 level courses)
- UN1015 and UN1025 are prerequisites for all upper division HASS courses
- See List online at <https://www.mtu.edu/registrar/faculty-staff/advisors/gen-ed/>



3 Total Units of Co-Curricular/PE

**Management with Entrepreneurship  
Elective Courses**  
Refer to the online Course Descriptions for  
further detail, descriptions, pre-requisites, etc.  
[www.mtu.edu/catalog/courses/](http://www.mtu.edu/catalog/courses/)

| <b>Concentration Electives (select 9 credits)</b>   |  |     | Typical Semester Offered  |
|---|--|-----|---------------------------|
| ACC 3500  | Managerial/Cost Accounting I                 | 3   | Spring                    |
| BUS 3900  | Business Internship                          | 1-5 | Any Semester (must apply) |
| EC 3300   | Industrial Organization                      | 3   | Fall                      |
| MGT 3100  | Leadership Development                       | 3   | Fall                      |
| MGT 4990  | Special Topics in Management                 | 1-6 | On Demand                 |
| MKT 3600  | Marketing Data Analytics                     | 3   | Spring                    |
| MKT 4200  | Business to Business Mktg in the Digital Age | 3   | Spring                    |
| OSM 3150  | Intro to Supply Chain Management             | 3   | Fall                      |
| OSM 4350  | Advanced Project Management                  | 3   | Spring (must apply)       |
| <b>Or a 3 credit elective course above may be replaced by three 1-credit courses below:</b> |  |     |                           |
| ENT 3954  | Enterprise Market Principles                 | 1   | Fall/Spring               |
| ENT 3958  | Ethics in Eng Design & Implementation        | 1   | Fall/Spring               |
| ENT 3963  | Deliver. Explore. Develop. Execute!          | 1   | Spring                    |
| ENT 4951  | Business Plans & Budgeting in the Enterprise | 1   |                           |
| ENT 4954  | Global Competition                           | 1   |                           |
| Enterprise Work variable credits of 1-2 credits; max of 6:                                  |  |     |                           |
| ENT1960, ENT2950, ENT2960, ENT3950, ENT3960, ENT4900, ENT4961                               |  |     |                           |
|   |  |     |                           |

Total Academic Credits.: 120  
+ 3 Co-Curricular Units



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Course Subject and Number  
Course Title  
Level Restrict, Course Credits  
Semesters Offered  
(F=Fall, S=Spring, Su=Summer)

# MANAGEMENT (BMG1)

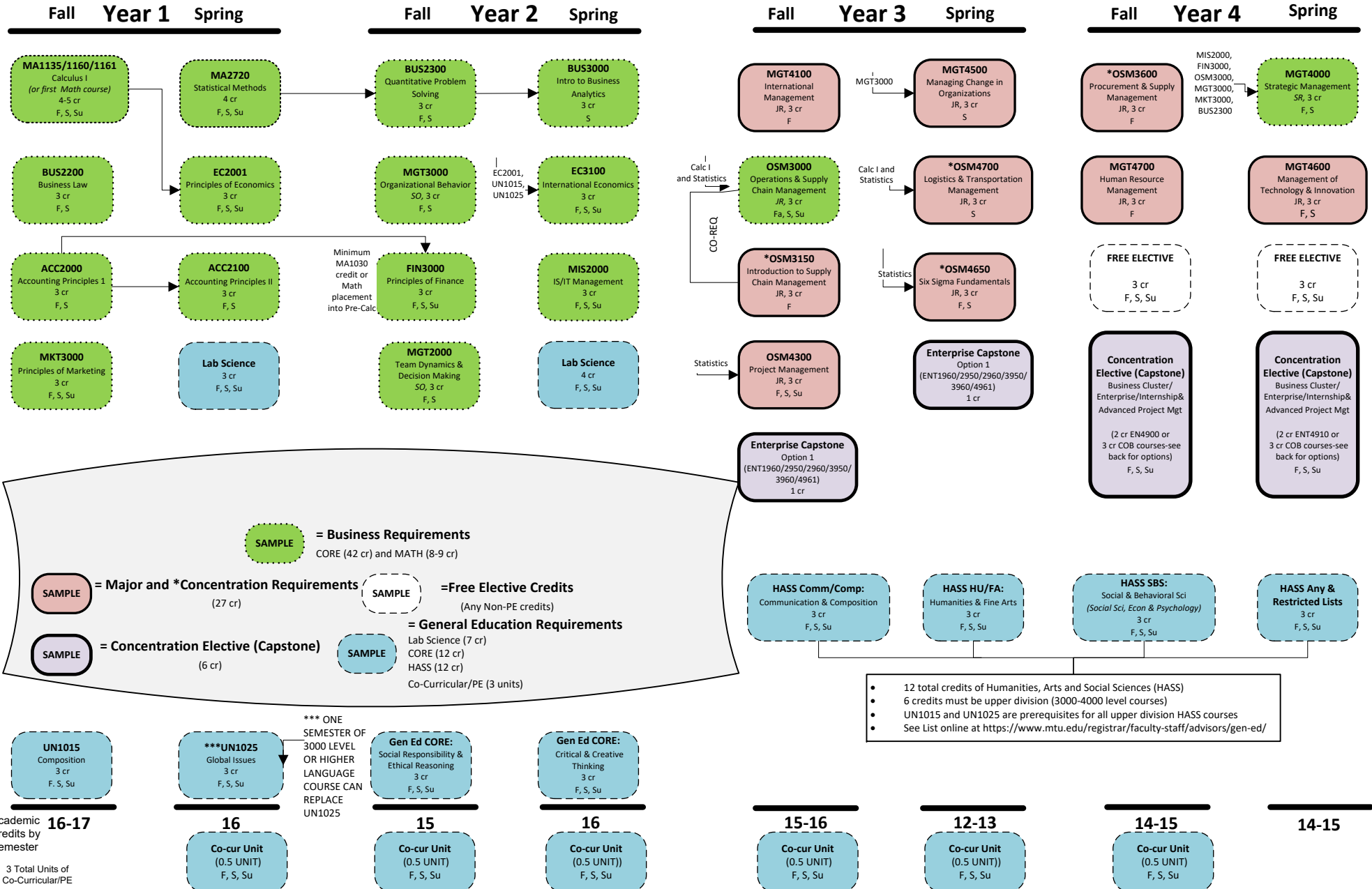
w/Concentration in Supply Chain & Operations Management

## \*FLOWCHART

### 2024-25 Academic Catalog Year

**\*NOTE:**

- Flowchart is a guide for course sequencing recommendations.
  - COB courses have some flexibility.
  - Note if any pre-requisites or class level required before taking a course.
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**Management with Supply Chain & Operations Management Elective Courses**  
 Refer to the online Course Descriptions for further detail, descriptions, pre-requisites, etc.

[www.mtu.edu/catalog/courses/](http://www.mtu.edu/catalog/courses/)

| <b>Concentration Capstone: 6 Credits (choose 1 option below)</b>      |  |   |                           |
|---|--|---|---------------------------|
| <b>Option 1: Enterprise Work (must be completed with 4 semesters)</b> |  |   | Typical Semester Offering |
| ENT 4900  | Sr Enterprise Project Work V Non-Capstone    | 2 | Fall/Spring               |
| ENT 4910  | Sr Enterprise Project Work VI Non-Capstone   | 2 | Fall/Spring               |
| And select 2 courses below:   |  |   |                           |
| ENT 1960  | Enterprise Orientation - Spring              | 1 | Fall/Spring               |
| ENT 2950  | Enterprise Project Work I                    | 1 | Fall/Spring               |
| ENT 2960  | Enterprise Project Work II                   | 1 | Fall/Spring               |
| ENT 3950  | Enterprise Project Work III                  | 1 | Fall/Spring               |
| ENT 3960  | Enterprise Project Work IV                   | 1 | Fall/Spring               |
| ENT 4961  | Enterprise Project Work VII                  | 1 | Fall/Spring               |
| <b>Option 2: Business Cluster (select 2 courses with same prefix)</b> |  |   |                           |
| ACC 3500  | Managerial/Cost Accounting I                 | 3 | Spring                    |
| and ACC 4500  | Managerial/Cost Accounting II                | 3 | On Demand                 |
| EC 3300   | Industrial Organization                      | 3 | Fall                      |
| and EC 4200   | Econometrics                                 | 3 | Fall                      |
| FIN 4100  | Advanced Financial Management                | 3 | Fall                      |
| and FIN 4500  | Risk Management                              | 3 | Spring                    |
| MGT 3800  | Innovation and Entrepreneurship              | 3 | Fall/Spring               |
| and MGT 4650  | Commercialization of Advanced Technologies   | 3 | Spring                    |
| MIS 3100  | Business Database Management                 | 3 | Fall                      |
| and MIS 3200  | Systems Analysis and Design                  | 3 | Spring                    |
| MKT 4100  | Sales and Sales Technology                   | 3 | Fall                      |
| and MKT 4200  | Business to Business Mktg in the Digital Age | 3 | Spring                    |
| <b>Option 3: Business Internship/Advanced Project Mgt</b>             |  |   |                           |
| BUS 3900  | Business Internship                          | 3 | Any Semester (must apply) |
| OSM 4350  | Advanced Project Management                  | 3 | Spring (must apply)       |

Total Academic Credits.: 120  
+ 3 Co-Curricular Units



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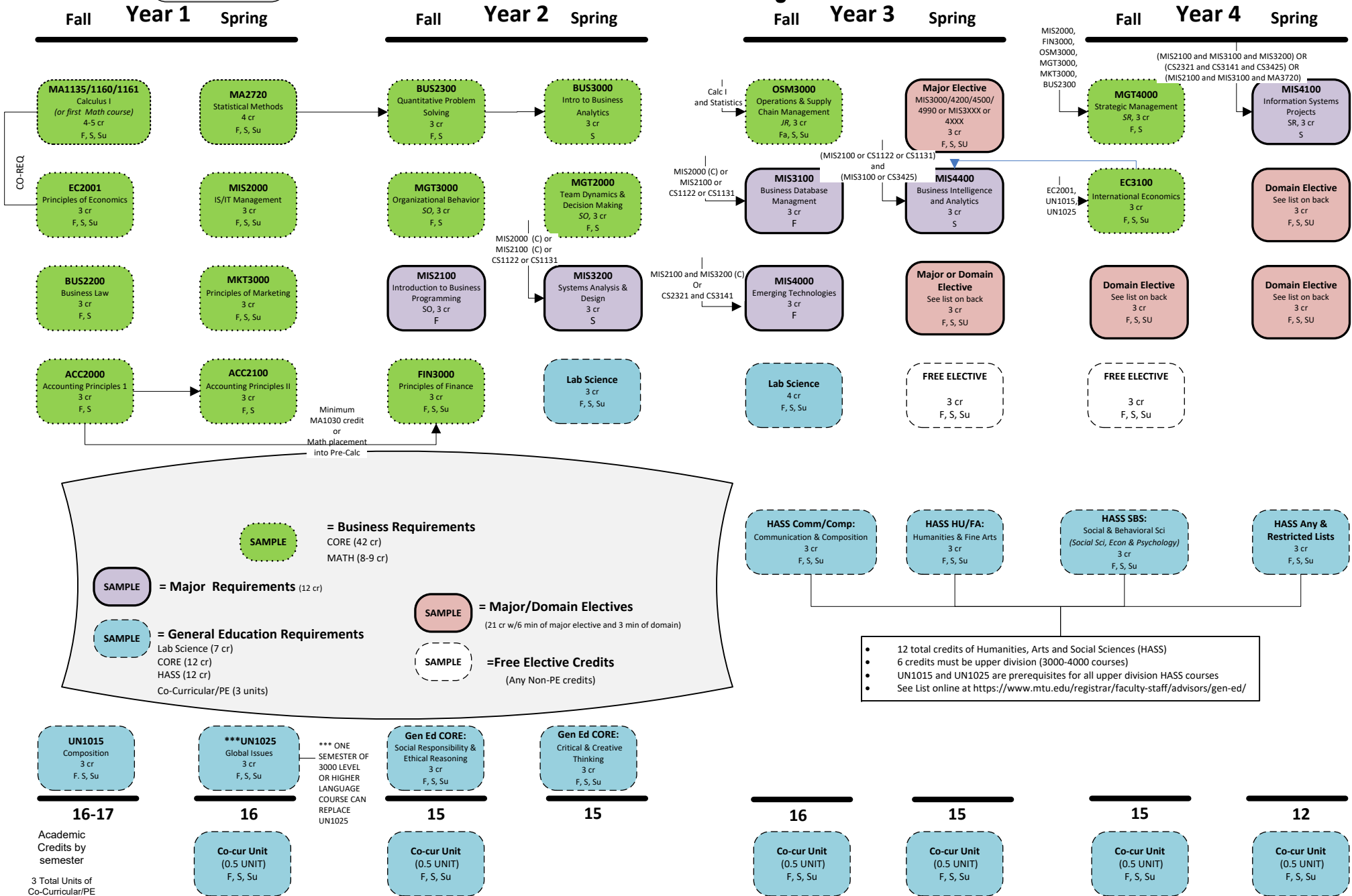
Course Subject and Number  
Course Title  
Level Restrict, Course Credits  
Semesters Offered  
(F=Fall, S=Spring, Su=Summer)

# MANAGEMENT INFORMATION SYSTEMS (BMIS) \*FLOWCHART

## 2024-25 Academic Catalog Year

**\*NOTE:**

- Flowchart is a guide for course sequencing recommendations.
  - COB courses have some flexibility.
  - Note if any pre-requisites or class level required before taking a course.
  - Actual Degree requirements are determined by your catalog term
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**Management Information Systems (MIS)  
Elective Courses**

Refer to the online Course Descriptions for further detail, descriptions, pre-requisites, etc.

[www.mtu.edu/catalog/courses/](http://www.mtu.edu/catalog/courses/)

| <b>MIS Electives (Major and Domain): 15 Credits</b> |  |   |                          |
|---|--|---|--------------------------|
| <b>Electives: 3-6 credits</b>                       |  |   | Typical Semester Offered |
| MIS 3000  | Business Process Analysis                        | 3 | Spring                   |
| MIS 4200  | Management of Cyber Security                     | 3 | Fall                     |
| MIS 4500  | Systems Design for Innovation & Entrepreneurship | 3 | Fall (odd years)         |
| *MIS 4990   | Special Topics in MIS                            | 3 | On Demand                |
| MISXXXX   | Any 3000 or 4000 Level course not listed         | 3 | On Demand                |

| <b>Computing Domain Knowledge</b>    |  |     |                           |
|--------------------------------------|--|-----|---------------------------|
| CS 1121                              | Intro to Programming 1                         | 3   | Any Semester              |
| CS 1122                              | Intro to Programming 2                         | 3   | Any Semester              |
| CS 1131                              | Accelerated Intro to Programming               | 5   | Fall                      |
| CS 2311                              | Discrete Structures                            | 3   | Fall/Spring               |
| CS 2321                              | Data Structures                                | 3   | Fall/Spring               |
| CS 4821                              | Data Mining                                    | 3   | Spring                    |
| <b>Experiential Domain Knowledge</b> |  |     |                           |
| BUS 3300                             | Business Internship                            | 1-5 | Any Semester (must apply) |
| ENT 1960                             | Enterprise Orientation-Spring                  | 1   | Fall/Spring               |
| ENT 2350                             | Enterprise Project Work I                      | 1   | Fall/Spring               |
| ENT 2360                             | Enterprise Project Work II                     | 1   | Fall/Spring               |
| ENT 3350                             | Enterprise Project Work III                    | 1   | Fall/Spring               |
| ENT 3360                             | Enterprise Project Work IV                     | 1   | Fall/Spring               |
| ENT 4361                             | Enterprise Project Work VII                    | 1   | Fall/Spring               |
| ENT 4300                             | Senior Enterprise Project Work V Non-Capstone  | 2   | Fall/Spring               |
| ENT 4310                             | Senior Enterprise Project Work VI Non-Capstone | 2   | Fall/Spring               |

| <b>Domain Knowledge Electives:<br/>9-12 credits from ONE domain area</b> |   |   |               |
|--|---|---|---------------|
| <b>Accounting Domain Knowledge</b>                                       |   |   |               |
| ACC4000  | Accounting Data Analytics                           | 3 | Fall          |
| ACC 4100   | Audit and Assurance                                 | 3 | Fall          |
| ACC 4800   | Accounting Systems                                  | 3 | Fall          |
| ACCXXXX  | Any 3000 or 4000 level ACC Course                   | 3 | Any Semester  |
| <b>Finance Domain Knowledge</b>  |   |   |               |
| FIN 4000   | Investment Analysis                                 | 3 | Fall          |
| FIN 4100   | Advanced Financial Management                       | 3 | Fall          |
| FIN 4600   | Financial Technology Foundations                    | 3 | Spring        |
| FINXXXX  | Any 3000 or 4000 level FIN Course                   | 3 | Any Semester  |
| <b>Management Domain Knowledge</b>                                       |   |   |               |
| MGT 4500   | Managing Change in Organizations                    | 3 | Spring        |
| MGT 4600   | Management of Technology & Innovation               | 3 | Any Semester  |
| OSM 4300   | Project Management                                  | 3 | Any Semester  |
| MGTXXXX  | Any 3000 or 4000 level MGT Course                   | 3 | Any Semester  |
| <b>Marketing Domain Knowledge</b>  |   |   |               |
| MKT 3600   | Marketing Data Analytics                            | 3 | Spring        |
| MKT 4100   | Sales and Sales Technology                          | 3 | Fall          |
| MKT 4500   | Digital Media Marketing                             | 3 | Spring        |
| MKTXXXX  | Any 3000 or 4000 level MKT Course                   | 3 | Any Semester  |
| <b>Supply Chain &amp; Operations Management Domain Knowledge</b>         |   |   |               |
| OSM 3600   | Procurement and Supply Management                   | 3 | Fall          |
| OSM 4650   | Six Sigma Fundamentals                              | 3 | Fall/Spring   |
| OSM 4700   | Logistics and Transportation Management             | 3 | Spring        |
| OSMXXXX  | Any 3000 or 4000 level OSM Course                   | 3 | Any Semester  |
| <b>Mathematics Domain Knowledge</b>                                      |   |   |               |
| EC 4200  | Econometrics  | 3 | Fall          |
| MA 2330  | Introduction to Linear Algebra                      | 3 | Fall/Spring   |
| MA 3740  | Statistical Programming and Analysis                | 3 | Fall/Spring   |
| MA 4710  | Regression Analysis                                 | 3 | Fall          |
| <b>Networking and Cyber Security Domain Knowledge</b>                    |   |   |               |
| SAT 2343   | Networking Administration 1                         | 3 | Fall/Summer   |
| SAT 2711   | Linux Fundamentals                                  | 3 | Fall/Summer   |
| SAT 3310   | Scripting for Administration, Automation & Security | 3 | Spring/Summer |
| SAT 3812   | Cyber Security I                                    | 3 | Spring/Summer |
| <b>Health Informatics Domain Knowledge</b>                               |   |   |               |
| SAT 4001   | Intro to Health Informatics                         | 3 | Unknown       |
| SAT 4114   | Artificial Intelligence in Healthcare               | 3 | Spring        |
| SAT 4141   | Clinical Decision Making                            | 3 | Unknown       |
| SAT 4650   | Introduction to Applied Computing in Python         | 3 | Fall/Spring   |



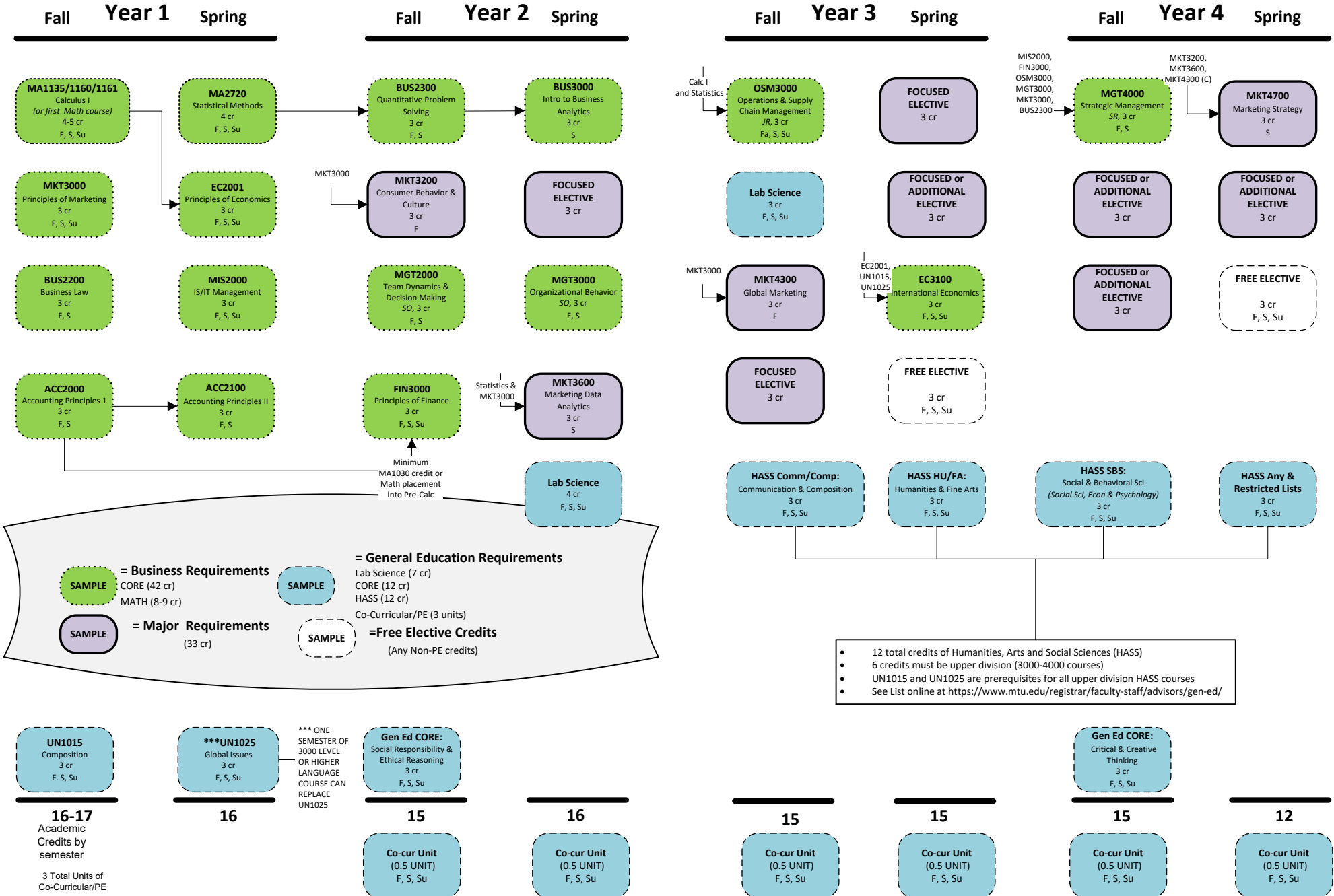
Total Academic Credits.: 120  
+ 3 Co-Curricular Units



# MARKETING (BMKT) \*FLOWCHART 2024-25 Academic Catalog Year

**\*NOTE:**

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  - COB courses have some flexibility.
  - Note if any pre-requisites or class level required before taking a course.
  - Actual Degree requirements are determined by your catalog term
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# OFFERED SPRING 2025!

**Marketing Elective Courses**  
Refer to the online Course Descriptions for further detail, descriptions, pre-requisites, etc.

[www.mtu.edu/catalog/courses/](http://www.mtu.edu/catalog/courses/)

| Marketing Electives: 21 credits                               |  |     | Typical Semester Offered  |
|---|--|-----|---------------------------|
| <b>Focused Electives: 9-21 credits</b>                        |  |     |                           |
| MGT 4600  | Management of Technology & Innovation      | 3   | Any Semester              |
| MIS 3100  | Business Database Management               | 3   | Fall                      |
| *MKT 3400   | Intregated Marketing Communications        | 3   | On Demand                 |
| MKT 4100  | Sales and Sales Technology                 | 3   | Fall                      |
| MKT 4200  | Business to Business Mktg in a Ditigal Age | 3   | Spring                    |
| MKT 4500  | Digital Media Marketing                    | 3   | Spring                    |
| *MKT 4990   | Special Topics in Marketing                | 1-6 | On Demand                 |
| OSM 4300  | Project Management                         | 3   | Any Semester              |
| <b>Additional Electives: 0-12 credits</b>                     |  |     |                           |
| ACC 3500  | Managerial/Cost Accounting I               | 3   | Spring                    |
| BUS 3900  | Business Internship                        | 1-5 | Any Semester (must apply) |
| *BUS 4991   | Business Development Experience I          | 3   | On Demand                 |
| *BUS 4992   | Business Development Experience II         | 3   | On Demand                 |
| EC 3300   | Industrial Organization                    | 3   | Fall                      |
| EC 4200   | Econometrics                               | 3   | Fall                      |
| FIN 4000  | Investment Analysis                        | 3   | Fall                      |
| MGT 3100  | Leadership Development                     | 3   | Fall                      |
| MGT 3800  | Innovation and Entrepreneurship            | 3   | Fall/Spring               |
| OSM 3150  | Intro to Supply Chain Management           | 3   | Fall                      |
| Enterprise Work variable credits of 1-2 credits; max of 6:    |  |     |                           |
| ENT1960, ENT2950, ENT2960, ENT3950, ENT3960, ENT4900, ENT4961 |  |     |                           |