

Requirements for MBA Students



2018 GOC Co-Chairs Jeff Eyler MBA '18 and Corinne Beemer (EGL BSE/MSE-IOE '19) at the Global Operations Conference.

Become a leader in today's highly competitive world of Operations

Administered by the Stephen M. Ross School of Business, the two-year MBA degree, coupled with the Tauber Institute's Global Operations, prepares students to assume leadership positions in operations or consulting functions of a wide range of industries such as high-tech, energy, consumer products, or healthcare. Students generally complete the 57 graduate hour MBA requirements in four terms of full-time study and have the flexibility to complete their Tauber requirements by choosing from a variety of electives. Students participate in an action-based 14-week paid multidisciplinary, collaborative project during the summer following their first year of study.



Academic Requirements

MBA Core

Topics in Global Operations

TO 701 | 1.5 hours | Fall A Term

Manufacturing and Supply Operations

TO 605 | 3 hours | Fall B & Winter A Terms; Taken in place of the required 1.5 hour core Operations course | TO 552.

Tauber Team Project

TO 703 | 3 hours | Fall B & Winter A Terms; Register for 1.5 hours in Winter Term and 1.5 hours in the subsequent Fall Term.

LeadershipAdvantageSM Program

Outside the classroom modules during Fall and Winter Terms, prior to the team project. Designed to increase workplace performance, specialized modules develop leaders through project management certification, professional skills assessment, team dynamics, and coaching, as well as lectures that include leveraging effective business relationship, communication skills, and change management.

Facility Tours

All students complete four facility tours prior to the team project that provide an insider's perspective into diverse operations.

3 hours from the following courses:

- Integrated Product Development | TO 548 | 6 hrs.
- Innovation in Global Health Delivery | TO 563 | 1.5 hrs.
- Action Learning Projects | TO 582 | can count 3 hrs. toward Tauber requirements.
- Project Management | TO 616 | 1.5 hrs.
- Supply Chain Analytics | TO 618 | 3 hrs.
- Global Supply Chain Management | TO 620 | 2.25 hrs.
- Logistics | TO 621 | 2.25 hrs.
- Information Technology Strategy in Supply Chain and Logistics | TO 623 | 1.5 hrs.
- Strategic Sourcing | TO 624 | 2.25 hrs.
- Advanced Big Data Analytics | TO 628 | 2.25 hrs.
- Big Data Management: Tools and Techniques | TO 640 | 2.25 hrs.
- Special Topics in Supply Chain Management | TO 735 | 1.5 hrs.

Engineering Elective Courses

- Tauber MBA students select five, and no more than 10, hours of College of Engineering electives to enhance education experiences.
- Waivers will be granted to students who have taken graduate level courses in topic areas covered by engineering electives, pending approval by the Tauber Institute co-directors.

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Day MBA Template with Tauber Curriculum

| FIRST YEAR—FALL TERM COURSES | | FIRST YEAR—WINTER TERM COURSES | |
|--|--|--|---|
| FALL–A | FALL–B | WINTER–A | WINTER–B |
| ACC 502 Principals of Financial Accounting 2.25 hrs. | FIN 503 Financial Management 2.25 hrs. | ACC 552 Management Accounting 1.5 hrs. | BA 553 Multidisciplinary Action Project 7.5 hrs. |
| BE 502 Applied Microeconomics 2.25 hrs. | MKT 503 Marketing Management 2.25 hrs. | Tauber Required Class TO 703^b Tauber Team Project 1.5 hrs. | |
| STRATEGY 502 Corporate Strategy 2.25 hrs. | MO 503 Leading People and Organizations 2.25 hrs. | Optional Elective^d 1.5–2.5 hrs. | |
| TO 502 Applied Business Statistics 2.25 hrs. | TO 605^a Manufacturing and Supply Operations 3 hrs. | | |
| Tauber Required Class TO 701 Topics in Global Operations 1.5 hrs. | | | |

| SECOND YEAR—FALL TERM COURSES | | SECOND YEAR—WINTER TERM COURSES | |
|---|-----------------|---|----------|
| FALL–A | FALL–B | WINTER–A | WINTER–B |
| Tauber Required Class TO 703^b Tauber Team Project 1.5 hrs. | ELECTIVE | Tauber ENGINEERING ELECTIVE^d 2–3 hrs. | |
| Tauber TO Elective^c | | ELECTIVE | |
| Tauber ENGINEERING ELECTIVE^d 2–3 hrs. | | ELECTIVE | |
| ELECTIVE | | ELECTIVE | |
| ELECTIVE | | ELECTIVE | |

^a Tauber students waive the 2.25 hour Technology Operations core class and take the 3 hour Manufacturing and Supply Operations (required) instead.

^b Completed during the summer; register for 1.5 hours in the Winter Term and 1.5 hours in the subsequent Fall Term.

^c Three hours from among these classes is required for Tauber students: TO 548, TO 563, TO 582, TO 616, TO 618, TO 620, TO 621, TO 624, or TO 735.

^d Students must complete at least five and no more than 10 hours of College of Engineering electives.

NOTES

1. Law/Ethics students must elect either an Ethics or Business Law course at some time during the MBA program.
2. Communications Requirement: MBA students must fulfill a Communication Requirement.
3. STRATEGY 503—World Economy (1.5 hours) must be completed at some time during the MBA program.
4. MBA students may broaden their experience by electing up to 10 hours of graduate study in other units of the University of Michigan. For Tauber MBA students, CoE elective courses count toward this 10-hour limit.

Tauber Team Projects

The capstone to the Tauber Institute for Global Operations, this 14-week consulting-style internship gives a team of engineering and business students the opportunity to deliver high impact results to an industry-leading company.

Team projects are highly visible operations-related challenges with both engineering and business components. A successful project results in a significant return on a sponsoring company's investment. The projects have historically delivered significant financial savings as well as improvements in areas such as CO2 emissions, energy consumption, throughput time, and supply chain risk.

Quick Facts

- Executive level support and dedicated team of faculty, and expert communication and team dynamics coaches
- Multidisciplinary business/engineering team-based experience
- High placement rates with companies
- Competitive salaries



Make A Big Impact!

Companies value our students and give them important challenges. Students analyze problems, propose solutions, and in most cases, implement their recommendations.

2018 Mayo Clinic team Daniel Huang (EGL BSE/MSE-IOE '19), Sho Kawabe (MBA '10) and Giuliana Sanchez (MBA '19) Using data analysis, the Tauber team identified key items for each procedure according to their frequency of use and average usage and generated 30 standardized picklists that can be used to cover 91% of the cases performed by Mayo Clinic annually.

Recommended Engineering Electives

Any graduate level engineering course can count toward the Tauber engineering elective requirement. The following courses are recommended by the Tauber Institute to the student looking for broader understanding of current operations, supply chain or manufacturing topics. Some courses may have prerequisites.

| NUMBER | COURSE NAME | HOURS | SEMESTER |
|-------------------|---|-------|--------------|
| IOE 413 | Optimization Modeling in Health Care | 3.0 | Fall |
| IOE 416 | Queuing Systems | 2.0 | Winter |
| IOE 425 | Manufacturing Strategies ("Lean Manufacturing") | 2.0 | Fall, Winter |
| IOE 447 MFG 447 | Facility Planning | 3.0 | Fall |
| IOE 449 | Material Handling Systems | 2.0 | Winter |
| ME 455 | Analytical Product Design | 3.0 | Fall |
| IOE 461 | Quality Engineering Principles & Analysis ("Six Sigma") | 3.0 | Fall |
| IOE 522 | Theories of Administration | 3.0 | Winter |
| IOE 524 | Integrative Technology Management | 3.0 | Winter |
| IOE 539 | Safety Engineering Methods | 3.0 | Fall |
| IOE 543 | Scheduling | 3.0 | Winter |
| IOE 548 TO 548 | Integrated Product Development ¹ | 6.0 | Fall |
| IOE 549 | Plant Flow Systems | 3.0 | Winter |
| ME 401 MFG 402 | Statistical Quality Control & Design | 3.0 | Winter |
| ME 558 MFG 558 | Discrete Design Optimization | 3.0 | Winter |
| ME 581 | Global Product Development | 3.0 | Fall |
| ME 587 | Reconfigurable Manufacturing for Market Responsiveness | 3.0 | Winter |
| ME 589 | Sustainable Design, Technology, and Environmental Systems | 3.0 | Fall |
| ME 599 | Management for Sustainable Manufacturing | 3.0 | Fall |

¹ Students should register for both TO548 (3 hours) and IOE 548 (3 hours) and will receive 6 hours for the course; 3 hours count toward the Tauber engineering elective requirement and 3 hours toward the business elective requirements.

NOTE: A maximum of 6 hours of 400-level graduate courses are allowed toward the MBA. All other graduate courses must be 500-level or above.

Frequently Asked Questions

Q: Why should I choose the Stephen M. Ross School of Business over other schools with Operations/Supply Chain/Manufacturing programs?

A: The Ross difference is action-based learning. It's an approach to business education that requires us to continuously create relevant, challenging ways to connect our students with the world of practice. Many of our students choose Ross and Tauber because of the flexibility of the program and degree options that are not available with other programs, as well as the caliber of the people they meet here (students, faculty, practitioners, company sponsors). Many employers state that the paid team projects are unmatched in quality and results and those students are superbly prepared for these internships. Students choose Ross because it is a clear leader in terms of fit, curriculum, and its emphasis on the real world application of their business education.

Q: Will it take longer to get my MBA degree if I join the Tauber Institute because of additional course requirements?

A: No. Since the Tauber Institute program is an overlay to the MBA degree, you use some of your 30 credit hours of free electives to fulfill our program requirements and graduate in four semesters.

Q: Do I need to have an undergraduate degree in engineering to apply to the Tauber Institute?

A: No. Although many Tauber students have a quantitative undergraduate degree, many have backgrounds in business, science, or other fields. A common thread among all students is a desire to be leaders in Operations, General Management, or Operations/IT related consulting.

Q: Are there two admission decisions made on Tauber applicants—one from the Stephen M. Ross School of Business and one from the Tauber Institute?

A: Yes, there are two admission decisions. However, a student not admitted to Tauber may still be admitted to Ross.

Q: What is the difference between the MBA with Tauber Institute for Global Operations and a dual MBA/MEM or MBA/MEng?

A: The Tauber Institute for Global Operations provides for a deep understanding of operations, including supply chain, quality, and operations strategy. The dual degree programs award two degrees and require fulfilling requirements of both, which typically means a deeper dive into engineering disciplines. The dual degree programs are still arranged so that they can be finished in two years.

Q: In addition to the Stephen M. Ross School of Business application, do I need to submit a separate application or essay directly to the Tauber Institute?

A: Not if you are applying in conjunction with your MBA application (that is, you've checked the "Tauber Institute box" on the first page of the Ross application). You should utilize your Ross essays to communicate your interest in the Tauber Institute.

If you've already applied and/or been admitted to the Ross program and did not check the Tauber Institute box on the application, then you do need to fill out a Tauber application (under the Prospective Students section at www.tauber.umich.edu) and e-mail (tauberinstitute@umich.edu) or fax to our office (734-647-1334) along with a copy of your resume and essay. We will request a copy of your application from Ross.

Q: Is an interview required for the Tauber Institute admissions process?

A: Yes, an interview with the Tauber Institute is required as part of the admissions process. Interviews are conducted in-person and by Skype. Interviews are by invitation only.

2018 Employers

3M
Accenture
Amazon
The Boeing Company
Boston Consulting Group
Dell Inc
End-to-End Analytics
Ernst & Young (EY)
Ford Motor Company
General Motors
Hilti Group
IDEX
The Keystone Group
McKinsey & Co.
Microsoft Corporation
Pfizer
PwC
Samsung
Stanley Engineered Fastening
Target
Wade Trim

Base Salaries Tauber Institute Class of 2018 Graduate MBA Students

| FUNCTION | BASE SALARY | | | | BONUS | |
|-------------------------------|-------------|-----------|-----------|---------------------|-------|----------|
| | % | Avg. | Median | Range | % | Median |
| MBA 20 of 24 reporting | | | | | | |
| Consulting | 15% | \$145,000 | \$150,000 | \$135,000–\$150,000 | 100% | \$25,000 |
| General Management | 50% | \$123,000 | \$125,000 | \$108,000–\$135,000 | 100% | \$25,000 |
| Operations/Supply Chain | 50% | \$128,750 | \$130,000 | \$125,000–\$130,000 | 100% | \$45,000 |
| Other | 15% | \$118,666 | \$116,000 | \$110,000–\$130,000 | 100% | \$50,000 |

To learn more, call **734-647-1333** or visit tauber.umich.edu