## 2018 - 2019 Major Map

**Technological Entrepreneurship and Management, BS**

**School/College:** W. P. Carey School of Business, Ira A. Fulton Schools of Engineering

**Location:** Polytechnic campus

### TSTEM2BS

<table>
<thead>
<tr>
<th>Term 1 - 14 Credit Hours</th>
<th>Hours</th>
<th>Minimum</th>
<th>Grade</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Critical course signified by</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ASU 101-TPS: The ASU Experience</td>
<td>1</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>TMC 110: Understanding the Enterprise</td>
<td>3</td>
<td>C</td>
<td></td>
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<tr>
<td>CIS 105: Computer Applications and Information Technology (CS)</td>
<td>3</td>
<td>C</td>
<td></td>
<td></td>
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<tr>
<td>OR EDT 180: Technology Literacy: Problem Solving using Digital Technology Applications (CS)</td>
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<tr>
<td>MAT 210: Brief Calculus (MA)</td>
<td>3</td>
<td>C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TEM 100: Seminar in Entrepreneurship</td>
<td>1</td>
<td>C</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Term hours subtotal:</strong></td>
<td></td>
<td></td>
<td></td>
<td>14</td>
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</tbody>
</table>

- ASU 101 is required of all freshman students; FSE 394 is required for all new transfer students.
- An SAT, ACT, Accuplacer, IELTS, or TOEFL score determines placement into first-year composition courses
- ASU Mathematics Placement Assessment score determines placement in mathematics course
- Prep for success using the **Freshman Guide**
- Join a Fulton community.
- Explore engineering and technical professions.

### Term 2 - 14 - 30 Credit Hours

<table>
<thead>
<tr>
<th>Hours</th>
<th>Minimum</th>
<th>Grade</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Critical course signified by</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TEM 200: My Technology Venture</td>
<td>3</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>MAT 211: Mathematics for Business Analysis</td>
<td>3</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>ECN 211: Macroeconomic Principles (SB)</td>
<td>3</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Natural Science - Quantitative (SQ)</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>ENG 101 or ENG 102: First-Year Composition OR ENG 105: Advanced First-Year Composition OR ENG 107 or ENG 108: First-Year Composition</strong></td>
<td>3</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Complete ENG 101 OR ENG 105 OR ENG 107 course(s).</td>
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<tr>
<td><strong>Term hours subtotal:</strong></td>
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</table>

- Create a **Handshake** profile.
- Get involved with EPICS, the Generator Labs, and the **Fulton Start-Up Center**.

### Term 3 - 30 - 46 Credit Hours

<table>
<thead>
<tr>
<th>Hours</th>
<th>Minimum</th>
<th>Grade</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Critical course signified by</strong></td>
<td></td>
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<tr>
<td>ACC 231: Uses of Accounting Information I</td>
<td>3</td>
<td>C</td>
<td></td>
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<tr>
<td>TEM 230: Creativity and Business Innovation</td>
<td>3</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>ECN 212: Microeconomic Principles (SB)</td>
<td>3</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Natural Science - Quantitative (SQ) OR Natural Science - General (SG)</td>
<td>4</td>
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</tr>
<tr>
<td>Humanities, Arts and Design (HU) AND Cultural Diversity in the U.S. (C)</td>
<td>3</td>
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</tr>
<tr>
<td>Complete ECN 211 AND ECN 212 course(s).</td>
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</tr>
<tr>
<td>Complete TEM 100 course(s).</td>
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<tr>
<td>Complete Mathematics (MA) requirement.</td>
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</tr>
<tr>
<td><strong>Term hours subtotal:</strong></td>
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</table>

- Prep for success using the **Sophomore Guide**.
- Consult the Resume, Presentation, and Resource Library for tips on how to create a technical resume, job shadow, do informational interviews and mentor with alumni.
### Term 4 (46 - 62 Credit Hours)

- **ACC 241: Uses of Accounting Information II**
  - Hours: 3
  - Grade: C
- **ECN 221: Business Statistics (CS)**
  - Hours: 3
  - Grade: C
- **TEM 250: Design Methodology**
  - Hours: 3
  - Grade: C
- **WPC 301: Business Forum OR TMC 300: Career Management**
  - Hours: 1
  - Grade: C
- **Focus Area**
  - Hours: 3
  - Grade: C
- **Humanities, Arts and Design (HU) AND Historical Awareness (H)**
  - Hours: 3

**Term hours subtotal:** 16

#### Notes
- Pursue an undergraduate research experience.
- Apply for internships.
- Attend career fairs and events.

### Term 5 (62 - 77 Credit Hours)

- **TMC 330: Leading the Enterprise OR MGT 300: Organization and Management Leadership**
  - Hours: 3
  - Grade: C
- **FIN 300: Fundamentals of Finance**
  - Hours: 3
  - Grade: C
- **FSE 301: Entrepreneurship and Value Creation**
  - Hours: 3
  - Grade: C
- **TMC 310: Promotion of the Enterprise OR MKT 300: Marketing and Business Performance**
  - Hours: 3
  - Grade: C
- **Upper Division Focus Area**
  - Hours: 3
  - Grade: C

**Term hours subtotal:** 15

#### Notes
- Plan for success using the Junior Guide.
- Network at student organization competitions or professional societies.

### Term 6 (77 - 92 Credit Hours)

- **TMC 320: Funding the Enterprise**
  - Hours: 3
  - Grade: C
- **SCM 300: Global Supply Operations**
  - Hours: 3
  - Grade: C
- **TEM 431: Innovation Management OR TEM 330: Systems Innovation**
  - Hours: 3
  - Grade: C
- **TMC 410: Enterprise Operations**
  - Hours: 3
  - Grade: C
- **Literacy and Critical Inquiry (L)**
  - Hours: 3

**Term hours subtotal:** 15

#### Notes
- Research and prepare for graduate school.
- Develop a professional profile online.

### Term 7 (92 - 107 Credit Hours)

- **TEM 400: Technology Entrepreneurship**
  - Hours: 3
  - Grade: C
- **TMC 430: Enterprise Strategy and Innovation**
  - Hours: 3
  - Grade: C
- **AGB 302: International Management and Agribusiness (G) OR ECN 306: Survey of International Economics (SB & G) OR MGT 302: Principles of International Business (G) OR MKT 425: Global Marketing Management (G) OR OMT 440: Introduction to International Business (G) OR SCM 463: Global Supply Chain Management (G)**
  - Hours: 3
  - Grade: C
- **Upper Division Focus Area**
  - Hours: 3
  - Grade: C
- **Upper Division Humanities, Arts and Design (HU) OR Upper Division Social-Behavioral Sciences (SB)**
  - Hours: 3

**Term hours subtotal:** 15

- Complete Cultural Diversity in the U.S. (C) AND Global Awareness (G) AND Historical Awareness (H) course(s).

### Term 8 (107 - 120 Credit Hours)

- **TMC 498: Pro-Seminar (L) OR TEM 482: Startup Workshop**
  - Hours: 3
  - Grade: C
- **MGT 430: Negotiations**
  - Hours: 3
  - Grade: C

#### Notes
- Plan for success using the Senior Guide.
- Use Handshake to apply for full-time positions.
- Complete an in-person or practice interview.
Students in this program select a primary focus area consisting of 9 hours of focused courses (minimum 6 of upper division). Sample focus areas are listed below. Additional focus areas may be available. Please check with your academic advisor.

**Focus Area: Innovation & Operations Management**
- OMT 343: Occupational Safety and Ergonomics
- OMT 452: Industrial Human Resource Management
- OMT 480: Organizational Effectiveness
- TEM 311: Opportunity Analysis
- TEM 330: Systems Innovation
- TEM 431: Innovation Management
- TEM 481: Consulting Project
- TEM 482: Startup Workshop
- TMC 470: Enterprise Planning and Implementation
- TMC 480: Senior Project

**Focus Area: Social Entrepreneurship**
- TEM 294: Social Entrepreneurship I
- TEM 311: Opportunity Analysis
- TEM 330: Systems Innovation
- TEM 394: Social Entrepreneurship II
- TEM 431: Innovation Management
- TEM 450: Design for the Developing World
- TEM 481: Consulting Project
- TEM 482: Startup Workshop
- AGB Upper Division Elective
- TMC 480: Senior Project

**General University Requirements Legend**

- **General Studies Core Requirements:**
  - Literacy and Critical Inquiry (L)
  - Mathematical Studies (MA)
  - Computer/Statistics/Quantitative Applications (CS)
  - Humanities, Arts and Design (HU)
  - Social-Behavioral Sciences (SB)
  - Natural Science - Quantitative (SQ)
  - Natural Science - General (SG)

- **General Studies Awareness Requirements:**
  - Cultural Diversity in the U.S. (C)
  - Global Awareness (G)
  - Historical Awareness (H)

- **First-Year Composition**
General Studies designations listed on the major map are current for the 2018 - 2019 academic year.