# MET-SBS Suggested Arrangement of Courses

Accredited by the Engineering Technology Accreditation Commission of ABET, http://www.abet.org

<table>
<thead>
<tr>
<th>Fall 1st Year</th>
<th>CR</th>
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<td>Computer Graphics Tech Selective</td>
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<td>Freshman Composition Selective+</td>
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<tr>
<td>MET 14300 Materials and Processes I</td>
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<tbody>
<tr>
<td>MA 16010 Applied Calculus I (P: ALEKS score 75)</td>
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<tr>
<td>MET 11100 Applied Statics ♦ (P: ENGT 18000)</td>
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<tr>
<td>MET 14400 Materials and Processes II</td>
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<td>MET 10200 Production Specifications (Prereq: CGT selective and ENGT 18000)</td>
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<td>MET 21100 Strength of Materials (Prereqs: MET 11100 and MA 16010)</td>
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<td>MET 24500 Manufacturing Systems (Prereqs: (MET 14300 or 14400) and CGT Sel)</td>
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<tr>
<td>MET 23000 Fluid Power (Prereqs: MET 11100 and MA 16010)</td>
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<td>Programming Selective</td>
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<td>Freshmen Speech Selective+</td>
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<td>MET 28400 Intro to Industrial Controls (Prereq: ECET 22400)</td>
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<td>PHYS 22100 General Physics II (Prereq: PHYS 2200) – PHYS-P 222 or 201 (USB)</td>
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<td>CHM 111 General Chemistry – CHEM-C 101 &amp; CHEM-C 121 (USB)</td>
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<td>MET 22000 Heat Power (Prereqs: PHYS 2200, MA 16010 &amp; ENGT 18000)</td>
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<tr>
<td>Humanities Selective</td>
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<tr>
<td>Technical Writing Selective+ ♦</td>
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<tr>
<td>Technical/Management Selective</td>
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<tr>
<td>MET 32000 Thermodynamics (Prereqs: MA 16010 and MET 22000)</td>
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<td>MET 34600 Advanced Materials in Mfg (Prereqs: MET 21100, MET 24500 and CHM 11100)</td>
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<tr>
<td>Economics/Finance Selective</td>
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<td>STAT 30100 Elementary Statistical Methods</td>
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<tr>
<td>Global/Professional Selective</td>
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<td>TLI 33400 Economic Analysis of Technical Systems (Prereq: MA 16010)</td>
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<td>MET Capstone Selective I</td>
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<tr>
<td>MET 31300 Fluid Mechanics (Prereqs: MA 16020, MET 22000 and MET 23000)</td>
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<tr>
<td>Communications Selective+ ♦</td>
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<td>MET Capstone Selective II (Prereq: Capstone Selective I)</td>
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<td>MET Elective or approved Focus Area elective</td>
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<td>Technical Selective or approved Focus Area elective</td>
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<td>Behavioral Social Science Selective</td>
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<td>Intercultural Requirement</td>
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<td>Professional Requirement</td>
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Refer to the 2019 MET supplemental Instruction sheet for optional courses to complete selects and prerequisites.

♦ Course is considered critical. A Critical Course is one that a student must be able to pass to persist and succeed in a particular major.
1. A 2.0 Graduation GPA are required for the Bachelor of Science degree.
2. Students must earn a "D-" or better in all courses unless otherwise noted.
3. Courses at Purdue University may only be attempted a maximum of three (3) times, including W, WF, I, IF and all graded attempts.
4. 32 credit hours of 300-level or higher courses must be completed at Purdue University.
5. Complete the Global / Intercultural Requirement (ungraded).
6. Complete the Professional Requirement (ungraded).

The student is ultimately responsible for knowing and completing all degree requirements.

The myPurduePlan powered by DegreeWorks is the knowledge source for specific requirements and completion.

Updated 4/12/2019
BOLD indicates courses offered at the South Bend location.  
+ Denotes optional Cornerstone Certificate Course  
*Indicates approved IUSB course for South Bend location.

CGT SELECTIVE
CGT 11000 Technical Graphics Communications  
CGT 16300 Graphical Communication and Spatial Analysis  
IT 10500 Intro to Engineering Design

PROGRAMMING SELECTIVE
CNIT 10500 Introduction to C Programming or *CSCI-C 101  
Computer Programming I  
CNIT 15500 Introduction to Computer Object-Oriented Programming  
Computer CNIT 15501 Intro to Software Development Concepts  
CNIT 17500 Visual Programming

FRESHMAN COMPOSITION SELECTIVE +
ENGL 10600 First-Year Composition  
ENGL 10800 Accelerated First-Year Composition  
*ENG-W 131 Reading, Writing & Inquiry

FRESHMAN SPEECH SELECTIVE+
COM 11400 Fundamentals of Speech Communication  
*SPCH-S 121 Public Speaking

ECONOMICS/FINANCE SELECTIVE
AGEC 21700 Agricultural Economics  
CSR 3420 Personal Finance  
ECON 2100 Principles of Economics  
ECON 25100 Microeconomics

COMMUNICATIONS SELECTIVE+
COM 31500 Speech Communication of Technical Information  
COM 32000 Small Group Communication

TECHNICAL WRITING SELECTIVE+
ENGL 42100 Technical Writing

TECHNICAL SELECTIVE
A 300-400 level ENGR, ECET, MFET (except MFET 30000), CS or elective IET course.  
Purdue 3-session co-op with completed seminar courses.  
A CHM, MA, PHYS or STAT course beyond what is required.  
Any MET elective course  
ANSC 23000 Physiology of Domestic Animals  
AT 27200 Intro to Composite Technology  
AT 27800 Nondestructive Testing  
AT 47800 Advanced Nondestructive Testing  
BCHM 22100 Analytical Biochemistry  
BCM 23000 Mechanical/Electrical Systems  
BCM 31500 Mechanical Construction Estimating  
BCM 38000 Concrete Construction  
BIOL 20300 Human Anatomy and Physiology  
BIOL 22100 Introduction to Microbiology  
CGT 22600 Intro to Constraint Based Modeling  
CGT 30301 Digital Manufacturing  
CHM 11200 General Chemistry  
CHM 11600 General Chemistry  
CHM 48100 Environmental Chemistry  
CE 35000 Environmental Engineering  
CE 35500 Engineering Environmental Sustainability  
HSCI 31200 Radiation Science Fundamentals  
IE 57700 Human Factors in Engineering  
IT 33000 Industrial Sales and Sales Management  
IT 34500 Automatic Identification and Data Capture  
IT 35100 Adv Industrial Safety & Health Management  
IT 43400 Global Transportation and Logistics Management  
MA 26100 Multivariate Calculus  
MFET 28800 Smart Manufacturing Operational And Information Networks  
NS 35000 Naval Ship Systems  
TLI 31300 Technology Innovation And Integration: Bar Codes To Biometrics  
TLI 33620 Total Productive Maintenance

TECHNICAL/MANAGEMENT SELECTIVE
AFT 35100 AF Leadership Studies I  
AFT 36100 AF Leadership Studies II  
ECET 38001 Global Professional Issues in ET  
EDPS 31500 Leadership: Listening  
EDPS 31600 Leadership: Cross-Cultural  
EDPS 31700 Leadership: Mentoring  
ENTR 31000 Marketing Management for New Ventures  
ENTR 31500 Business Planning For Social Entrepreneurship
MFET 35800 Smart Manufacturing And The Global Economy
MGMT 20000 Accounting Principles
MGMT 20010 Business Accounting
MGMT 45500 Legal Background for Business
MSL 20200 Leadership & Teamwork
MSL 30100 Leadership & Problem Solving
MSL 40100 Leadership & Management
NS 21400 Fundamentals of Leadership
NS 41300 Naval Leadership Management & Ethics
OLS 25200 Human Relations in Organizations
OLS 27400 Applied Leadership
OLS 28400 Leadership Principles

MECHANICS SELECTIVE Prerequisites are in parenthesis
MET 31100 Experimental Strength of Materials (MET 21100, MET 21300, & MA 16020)
MET 31400 Applications of Machine Elements (MET 21100 & MET 21300)
MET 31500 Applied Kinematics and Dynamics (CGT 11000 & MET 21300)
MET 31601 Mechanics of Machine Design (MET 21100)
MET 31700 Machine Diagnostics (MET 21300, Physics 2 & MA 16020)
MET 41100 Introduction to the Finite Element Method (MET 21100, MET 21300, & Physics 2)

MET ELECTIVE (6 credit hours) Prerequisites are in parenthesis
5 Session co-op with completed seminar courses.
MET 30200 CAD in the Enterprise (MET 10200 & MET 24500)
MET 31100 Experimental Strength of Materials (MET 21100, MET 21300, & MA 16020)
MET 31400 Applications of Machine Elements (MET 21100 & MET 21300)
MET 31500 Applied Kinematics and Dynamics (CGT 11000 & MET 21300)
MET 31601 Mechanics of Machine Design (MET 21100)
MET 33400 Advanced Fluid Power (MET 23000 or MET 33000)
MET 34900 Stringed Instrument Design and Manufacture (MET 21100, MET 21300, MET 24500, & MA 16020)
MET 38200 Controls and Instrumentation for Automation (MA 16010, & MET 28400)
MET 40000 Mechanical Design (MET 10200, MET 23000, MET 28400, and MET 34600)
MET 40100 Capstone Projects I (MET 10200, MET 23000, MET 28400, and MET 34600)
MET 40200 Capstone Projects II (MET 40100 or ECET 43000)
MET 41100 Introduction to the Finite Element Method (MET 21100, MET 21300, & Physics 2)
MET 42100 Air Conditioning and Refrigeration (MET 32000 or MET 30000)
MET 42200 Power Plants & Energy Conversion (MET 31300 and MET 32000)
MET 42600 Internal Combustion Engines (MET 32000 or MET 30000)
MET 43200 Hydraulic Motion Control Systems (MET 23000 or MET 33000)
MET 43600 Pneumatic Motion Control Systems (MET 23000 or MET 33000)
MET 44301 Joining Processes (MET 10200, MET 21400, & MET 34600)
MET 45100 Manufacturing Quality Control (STAT 30100)
MET 48200 Mechatronics (MET 10200, MET 21400, and MET 28400)
MET 48600 Fundamentals of Motorsports (MET 31300, & MET 32000)
MET 49000 Green Manufacturing and Sustainability
MET 49900 MET Independent Study

MET CAPSTONE SELECTIVES I & II (6 credit hours) Prerequisites are in parenthesis
ECET 43000 Product/Project Management (ECET 38001 and 9-12 cr. hrs. of coursework in a technical focus area)
ECET 43100 International Capstone Plan
ECET 46000 Project Design and Development (ECET 43000)
ECET 46100 International Capstone Execution (ECET 43100)
ENGT 40500 Entrepreneurial Capstone I
ENGT 40600 Entrepreneurial Capstone II (ENGT 40500)
MET 33400 Advanced Fluid Power (MET 23000 or MET 33000)
MET 40000 Mechanical Design (MET 10200, MET 23000, MET 28400, and MET 34600)
MET 40100 Capstone Projects I (MET 10200, MET 23000, MET 28400, and MET 34600)
MET 40200 Capstone Projects II (MET 40100 or ECET 43000)
MET 42100 Air Conditioning and Refrigeration (MET 32000 or MET 30000)
MET 42200 Power Plants & Energy Conversion (MET 31300 and MET 32000)
MET 42600 Internal Combustion Engines
MET 43200 Hydraulic Motion Control Systems (MET 23000 or MET 33000)
MET 43600 Pneumatic Motion Control Systems (MET 23000 or MET 33000)
MFET 48000 Project Planning for Integration (MFET 37400)
MFET 48100 Integration of Manufacturing Systems (MFET 48000)

GLOBAL/PROFESSIONAL SELECTIVE

ANTH 20500 Human Cultural Diversity
ANTH 34100 Culture & Personality
ARAB 28000 Arabic Culture
CHNS 28000 Selected Topics on China
CHNS 28500 Chinese Calligraphy
COM 22400 Communicating in the Global Workplace
COM 30300 Intercultural Communication
ECET 38001 Global Professional Issues In ET
EDPS 31600 Leadership: Cross-Cultural
FNR 48800 Global Environmental issues
FR 33000 French Cinema
GER 23000 German Folklore & Fairy Tales
GER 28000 Beer Brewing in the German Culture
GER 33000 German Cinema
HIST 30000 Eve of Destruction
HIST 33300 Science & Technology in Western Civilization I
HIST 33400 Science & Technology in Western Civilization II
HIST 36000 Gender in Middle East History
JPNS 28000 Introduction to Modern Japanese Civilization

HUMANITIES FOUNDATIONAL SELECTIVE: see http://www.purdue.edu/provost/initiatives/curriculum/course.html

Students attending the South Bend location can go to the following link to review how IU courses transfer to Purdue University to meet Core Course Requirements: http://www.purdue.edu/provost/initiatives/curriculum/documents/Retro%20and%20Transfer%20Credit%20Course%20list%205-27-14.pdf

*FINA-F 100 Fundamentals of Studio Drawing
*HIST-H 105 American History I
*HIST-H 106 American History II
*HIST-H 113 History of Western Civilization I

*PHIL-P 110 Introduction to Philosophy
*PHIL-P 140 Introduction to Ethics

BEHAVIORAL/SOCIAL SCIENCE FOUNDATIONAL SELECTIVE: see http://www.purdue.edu/provost/initiatives/curriculum/course.html

Students attending the South Bend location can go to the following link to review how IU courses transfer to Purdue University to meet Core Course Requirements: http://www.purdue.edu/provost/initiatives/curriculum/documents/Retro%20and%20Transfer%20Credit%20Course%20list%205-27-14.pdf

*ECON-E 103 Introduction to Microeconomics
*ECON-E 104 Introduction to Macroeconomics
*POLS-Y 103 Introduction to American Politics
*POLS-Y 109 Introduction to International Relations

*PSY-P 103 Introduction to Psychology
*SOC-S 161 Principles of Sociology
*SOC-S 163 Social Problems

Intercultural Requirement – ALL students must complete

Polytechnic Minimum Global Requirements

STEP 1: Complete the Pre-test Intercultural Development Inventory Assessments (1st year)

STEP 2: Complete one (1) of the following global experiences:*
- Participate in a Purdue University international capstone, collaborative project, or
- Participate in an international internship (international location), or
- Participate in a full semester abroad program, or
- Complete 3 credit hours from the Polytechnic list of recommended Global/Cultural courses.

STEP 3: Complete the Post-test Intercultural Development Inventory Assessments (4th year)

NOTE FOR TRANSFER/CODO STUDENTS: Transfer and CODO students with less than 75 credit hours remaining to complete their Polytechnic Plan of Study are exempt from Steps 1 (taking the IDI Pre-test).

*Global experiences must take place during the time of enrollment in Polytechnic to complete Step 2. Experiences that have taken place prior to a student’s initial enrollment will not serve to complete Step 2. Intercultural competencies gained on experiences prior to Polytechnic enrollment will be captured as baseline data on a student’s IDI.
Purdue University (West Lafayette) courses that meet the global requirement

AAS 27100 Intro to African American Studies
AAS 37300 Variable Title: History of Injustice
AGR 20100 Communication Across Cultures
ANSC 381 Leadership for a Diverse Workplace
ANTH 203 Biological Bases of Human Social Behavior
ANTH 20500 Human cultural Diversity
ANTH 21000 Technology and Culture
ANTH 21200 Culture, Food and Health
ANTH 23000 Gender Across Cultures
ANTH 34000 Global Perspectives on Health
ANTH 341 Culture and Personality
ANTH 379 Native American Cultures
ARAB 28000 Foreign Languages
ASAM 240 Intro to Asian American Studies
AT 23300 Ethics and Aviation
CNIT 320 Policy, Regulation, and Globalization in information Technology
COM 224 Communicating in the Global Workplace
COM 30300 Intercultural Communication
COM 32000 Small Group Communication
COM 373 Self-Presentation & Social Image
COM 412 Theories of Human Interaction
COM 423 Leadership, Communication & Organizations
ECET 29000 International Experience
ECET 38001 Global Professional Issues in ET
EDPS 30000 Student Leadership Development
EDPS 30100 Peer Counselling Training
EDPS 31500 Collaborative Leadership: Listening
EDPS 31600 Collab Leadership: Cross-cultural Settings
EDPS 31700 Collaborative Leadership: Mentoring
ENGL 41400 Literature & Culture
HDFS 280 Diversity in Individual and Family Life
HDFS 33200 Stress & Coping in Contemporary Families
HEBR 38500 The Holocaust in Modern Hebrew Literature
HIST 19500 Historical Research & Film!

Any foreign language 200 or higher (201, 202, 301, 302, 401, 402)

Polytechnic Statewide- South Bend (IUSB) Approved Courses

South Bend- Offered through IUSB

ANTH-E Indians of Indiana
ANTH-E 105 Culture & Society
ANTH-E 300 Culture Areas & Ethnic Groups
ANTH-E 310 Introduction to Cultures of Africa
ANTH-E 321 Peoples of Mexico
ANTH-E 335 Ancient Civilization of Mesoamerica
ANTH-E 397 Peoples & Cultures of the Middle East
EALC-J 101 Elementary Japanese I
GEOG-110 Introduction to Human Geography
GEOG-G 120 Regions of the World
GEOG-G 201 World Regional Geography
HIST-A 371 History of Indiana I
HIST-A 372 History of Indiana II
HIST-A 301 Colonial America
HIST-A 373 American History Through Film
HIST-A 355 African American History I
HIST-B 300 Issues in Western European History
HIST-B 378 History of Germany Since 1648 II
HIST-C 386 Greek History from the Minoans to Alexander
HIST-D 310 Russian Revolution and Soviet Regime
HIST-F 300 Issues in Latin American History
HIST-A 352 History of Latinos in the United States
HIST-G 358 Early Modern Japan
HIST-H 101 The World in the Twentieth Century I
HIST-H 201 History of Russia I
HIST-H 202 History of Russia II
HIST-H 207 Modern East Asian Civilization
HIST-H 211 Latin American Culture and Civilization 1
HIST-H 212 Latin American Culture and Civilization 2
HIST-W 300 Issues in World History
LSTU-L 330 Global Comparisons: Labor Relations – Examples from Three Continents
LSTU-L 331 Global Problems: Local Solutions
LSTU-L 385 Class, Race Gender, and Work
Professional Requirement – All students must complete

The SOET Professional Experience requirement is intended to document those experiences which help expose SOET students to the expectations of their profession prior to graduation. This may occur through industrial experience, technical or administrative involvement with community service, military service, et cetera. Approval has been granted for the following experiences. Additional experiences may also satisfy this graduation requirement. Requests for approval should be submitted to the SOET Curriculum Subcommittee Chair for consideration, allowing at least four academic weeks for review and response.

### Potential Professional Experiences

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<tr>
<th>Approval Process</th>
<th>Experience</th>
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<tbody>
<tr>
<td>Automatic</td>
<td>Any TECH Professional Practice course (co-op, intern, etc.)</td>
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<tr>
<td>Automatic</td>
<td>MET 29900 Internship for Credit</td>
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<tr>
<td>Automatic</td>
<td>EPICS courses, minimum of 2</td>
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<tr>
<td>Advisor</td>
<td>Any approved internship (assuming student and/or employer provide documentation)</td>
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<tr>
<td>Advisor</td>
<td>Military service (ROTC, reservist, active duty, veteran)</td>
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<tr>
<td>Faculty</td>
<td>Supervised undergraduate research experiences or laboratory assistantships (e.g., employed in the AEL as lab technician)</td>
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<tr>
<td>Faculty</td>
<td>Independent study – by petition to ensure the project meets the spirit of the requirement</td>
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<tr>
<td>Faculty</td>
<td>Professional society/club activities (e.g., led the Solar Racing team) - by petition</td>
</tr>
<tr>
<td>Faculty</td>
<td>Any approved employment or industry project.</td>
</tr>
</tbody>
</table>

**Approval Key:**
- Automatic – student participation in this professional experience is already documented through existing means.
- Advisor – advisor reviews student’s experience to determine if it meets the spirit of the Professional Experience requirement.
- Faculty – designated committee reviews student’s experience to determine if it meets the spirit of the Professional Experience requirement.