

Kokomo Industrial Engineering Technology

Suggested Arrangement of Courses:

Cr	Fall 1st Year	Prerequisite	Gr.	Cr	Spring 1st Year	Prerequisite	Gr.
3	ENGT 18000 Engineering Technology Foundations			3	TLI 11200 Foundation of Org Leadership		
1	ENGT 18100 Engineering Technology Applications			3	PHYS 22000 General Physics I		
3	TECH 12000 Design Thinking in Technology *			3	Behavioral/Social Science Selective		
3	Oral Communication Selective			3	Materials & Processes Selective		
3	Mathematics Selective			3	Written Communication Selective		
3	Humanities Selective						
16				16			

Cr	Fall 2nd Year	Prerequisite	Gr.	Cr	Spring 2nd Year	Prerequisite	Gr.
3	TLI 21300 Project Management			3	TLI 31600 Statistical Quality Control	Math/Stat selective	
3	TLI 21400 Intro to Supply Chain Management Technology			3	MET 24500 Manufacturing Systems	MET 14300 or MET 14400 and CGT 11000	
3	Computer Programming Selective			3	ECET 22400 Electronics Systems	MA 16010	
3	Lab Science Selective			3	ECON 21000 Principles of Economics		
2	Technical Graphics Selective			3	History of Science & Tech Selective		
14				15			

Cr	Fall 3rd Year	Prerequisite	Gr.	Cr	Spring 3rd Year	Prerequisite	Gr.
3	STAT 30100 Elementary Statistical Methods			3	TLI 33520 Human Factors for Technology Systems		
3	TLI 31300 Tech Innovations: Biometrics			3	TLI 43630 Design of Experiments		
3	TLI 33400 Economic Analysis for Tech Systems	Math/Stat selective		3	TLI 43530 Operations Plan & MGMT	Math/Stat selective	
3	Advanced Written Communication Selective			3	Manufacturing Automation Selective		
3	TLI 33620 Total Productive Maintenance	PHYS 21800 & TLI 316000 or STAT 30100		3	Advanced Oral Communication Selective		
15				15			

Cr	Fall 4th Year	Prerequisite	Gr.	Cr	Spring 4th Year	Prerequisite	Gr.
3	TLI 48390 Industrial Engineering Technology Capstone I: Problem Identification and Analysis	MET 24500 and TLI 43530		3	TLI 48395 Industrial Engineering Technology Capstone II: Project Design	TLI 48390 min 'C'	
3	TLI 43640 Lean Six Sigma	TLI 31600		3	TLI 43540 Facilities Planning and Material Handling	MET 14300 or MET 14400 and TLI 43530	
3	Technical Elective			3	Technical Elective		
3	Technical Elective			3	Free Elective		
3	Free Elective			2	Free Elective		
0	Internship Experience			0	Globalization Experience		
15				14			

***Fulfills University Core**

- 1) 120 credits listed above are required for the IET Bachelor of Science degree.
- 2) 2.0 Graduation GPA required for Bachelor of Science degree.
- 3) 32 credits of upper division courses (30000 level or higher) must be taken at Purdue University.
- 4) ANY COURSE TAKEN AT PURDUE CAN BE ATTEMPTED NO MORE THAN THREE TIMES (INCLUSIVE OF W, WF, I AND IF).

See next page for all supplemental information

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

myPurdue Plan is knowledge source for specific requirements and completion

Kokomo IET Supplemental Information

All prerequisites must be met

**Bold indicates courses offered at the Kokomo Campus.
See Student Services Coordinator for course availability.**

Behavioral/Social Science Selectives (3 credits)

See approved list at: <http://www.purdue.edu/provost/initiatives/curriculum/course.html>

ECON-E201, ECON-E202, POLS-Y103, PSY-P103, SOC-S100

Humanities Selectives (3 credits)

See approved list at: <http://www.purdue.edu/provost/initiatives/curriculum/course.html>

HIST-H105, HIIST-H106, HIST-H113, HIST-H114, PHIL-P100, PHIL-P140, FINA-A101, FINA-A102, MUS-M174, SPAN S100-400, FREN-F100-400, GER-G100-400

Materials & Processes Selective (3 credits)

MET 14300 Materials and Processes I

MET 14400 Materials and Processes II

Mathematics Selective (3 credits)

MA 15800 Precalculus – Functions and Trigonometry

MA 16010 Applied Calculus I

MA 16100 Plane Analytic Geometry & Calculus I

MA 16200 Plane Analytic Geometry & Calculus II

MA 16500 Analytic Geometry & Calculus I

MA 16600 Analytic Geometry & Calculus II

Oral Communication Selective

COM 11400 Fundamentals of Speech Comm

SCLA 10200 Transformative Texts, Critical Thinking & Communication II: Modern World

SPCH-S121

Written Communication Selective (minimum 3 credits)

ENGL 10600 First-Year Composition

ENGL 10800 Accelerated First-Year Composition

SCLA 10100 Transformative Texts, Critical Thinking & Comm I: Antiquity To Modernity

ENG-W131

Computer Programming Selective (3 credits)

CNIT 10500 Introduction To C Programming

CS 15900 C Programming

CNIT 15501 Introduction To Software Development Concepts

CS 17700 Programming With Multimedia Objects

CNIT 17500 Visual Programming

CS 18000 Problem Solving And Object-Oriented Programming

CS 15800 C Programming

MET 16400 Computing In Engineering Technology

History of Science and Technology Selective (3 credits)

HIST 30305 Food in Modern America

HIST 33000 History Of The Brit Empire &

HIST 38400 History Of Aviation

HIST 30605 Technology and War in U.S. History

Commonwealth, 1783 To 1960

HIST 38700 History Of The Space Age

HIST 31405 Tech & Gender In American History

HIST 33400 Sci & Society In West Civ II

POL 42900 Contemporary Political Problems

HIST 31505 American Beauty

HIST 38001 History Of United States Agriculture

TLI 29900

Science Selective (3 credits)

Must be a lab from the approved UCC Science list: <http://www.purdue.edu/provost/initiatives/curriculum/course.html>

ANAT-A215, BIOL-L100, BIOL-L105, CHEM-C101 + C121, CHEM-C102 + C122, CHEM-C105 + C125, CHEM-C106 + C126, GEOL-G100, GEOL-G133, MICR-J200 + J215,

PHYS-P201, PHYS-P202, PHYS-P221, PHYS-P222, PLSC-B203, ZOOL-Z315

Technical Graphics Selective (2 credits)

CGT 11000 Technical Graphics Communications

CGT 16300 Graphical Communication And Spatial Analysis

IT 10500 Industrial Technology Introduction To Design

Advanced Oral Communication Selective (3 credits)

COM 31400 Advanced Presentational Speaking

COM 32500 Interviewing: Principles And Practice

SPCH-C380

COM 31500 Speech Comm Of Tech Information

COM 41500 Discussion Of Technical Problems

SPCH-S223

COM 31800 Principles Of Persuasion

COM 43500 Comm And Emerging Technologies

SPCH-S229

COM 32000 Small Group Communication

SPCH-C321

COM 32400 Introduction To Org Communication

SPCH-C325

Advanced Written Communication Selective (3 credits)

ENGL 30400 Advanced Composition

ENGL 42100 Technical Writing

ENGL 30600 Intro To Professional Writing

ENGL 42400 Writing For High Tech Industries

ENGL 41900 Multimedia Writing

ENG-W321

ENGL 42000 Business Writing

Manufacturing Automation Selective (3 Credits)

MET 28400 Introduction To Industrial Controls

MFET 30000 Applications Of Automation In Manufacturing

MFET 34400 Automated Manufacturing Processes

Free Electives (8 credits)

Any non-remedial course offered for credit at the University not already required/being used on the plan of study

Technical Elective (9 credits)

Any Polytechnic Institute or Engineering (ENGR or EPCS) course not already required on the plan of study

ENR 20000 Introduction To Entrepreneurship And Innovation

ENR 31000 Marketing And Management For New Ventures

ENR 31500 Business Planning For Social Entrepreneurship

Intercultural Requirement

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 completed their Polytechnic Plan of Study are exempt from Step 1 (taking the IDI Pre-test).

*Global experiences must take place during the time of enrollment in Polytechnic to complete Step 2. Experiences 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.

AAS 27100	Intro to African American Studies	HIST 36600	Hispanic Heritage of the USA
AAS 37300	Variable Title: History of Injustice	HIST 37700	History & Culture of Native America
AGR 20100	Communication Across Cultures	HIST 46900	Black Civil Rights Movement
ANSC 38100	Leadership for a Diverse workplace	HIST 47900	American Representations of Middle East & North Africa
ANTH 20300	Biological Bases of Human Social Behavior		
ANTH 20500	Human cultural Diversity	HIST 49900	History of Sexual Regulation in the United States
ANTH 21000	Technology and Culture	HTM 37000	Sustainable Tourism and Responsible Travel
ANTH 21200	Culture, Food and Health	HTM 37200:	Global Tourism Geography
ANTH 23000	Gender Across Cultures	MSL 20100	Individual Leadership Studies
ANTH 34000	Global Perspectives on Health	OLS 35000	Creativity In Business & Industry
ANTH 34100	Culture and Personality	PHIL 11400	Global Moral Issues
ANTH 37900	Native American Cultures	PHIL 43500	Philosophy of Mind
ARAB 28000	Arabic culture	POL 22200	Women, Politics & Public Policy
ASAM 24000	Intro to Asian American Studies	POL 23500	Rich and Poor Nations
AT 23300	Ethics and Aviation	POL 32600	Black Political Participation in America
COM 22400	Communicating in the Global Workplace	POL 32700	Global Green Politics
COM 30300	Intercultural Communication	POL 36000	Women and the Law
COM 32000	Small Group Communication	POL 41300	The Human Basis of Politics
COM 37300	Self-Presentation & Social Image	POL 42300	International Environmental Policy
COM 38000	Sociolinguistic Study of African American English	POL 42900	Variable Title: It's a Complex World (Cross listed with IE49000, ME29700)
COM 38000	Sociolinguistic Study of African American English		
COM 41200	Theories of Human interaction	POL 43300	International Organization
COM 42300	Leadership, Communication & Organizations	PSY 25000	Psychology of Adjustment
ECET 29000	International Experience	PSY 25100	Health Psychology
ECET 38001	Global Professional Issues in ET	PSY 28500	Consumer Behavior
EDPS 23500	Learning and Motivation	PSY 32200	Research Design
EDPS 30000	Student Leadership Development	SOC 10000	Intro to Sociology
EDPS 30100	Peer Counselling Training	SOC 31000	Racial and Ethnic Diversity
EDPS 31500	Collaborative Leadership: Listening	SOC 33900	Introduction to Sociology of Developing Nations
EDPS 31600	Collaborative Leadership: Cross-cultural Settings	TECH 33000	Technology and the Global Society
EDPS 31700	Collaborative Leadership: Mentoring	WGSS 28200	Intro to LGBT Studies
ENGL 41400	Literature & Culture	WGSS 38000	Gender and Multiculturalism
HDFS 23300	Stress and Human Health	WGSS 38300	Women and Work
HDFS 28000	Diversity in Individual and Family Life	Any foreign language 200 or higher (201, 202, 301, 302, 401, 402)	
HDFS 33200	Stress & Coping in Contemporary Families	PSY-P103	General Psychology
HEBR 38500	The Holocaust in Modern Hebrew Literature	SOC-S100	Introduction to Sociology
HIST 19500	Historical Research & Film!	SPCH-S229	Discussion and Group Methods
HIST 30000	Eve of Destruction: Global Crises and World Organization in the 20th Century	SPCH-S223	Business and Professional Communication
		CNIT 32000	Policy, Regulation, and Globalization in information Technology
HIST 33805	History of Human Rights		
HIST 35000	Science and Society in the 20th-Century World	TLI 11200	Foundations of Tech. Leadership

PROFESSIONAL REQUIREMENT

The SOET Professional Experience requirement is intended to document those experiences which help expose SOET students to the expectations of their professional 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.

Approved Professional Requirement Experiences

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

* 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