

PURDUE UNIVERSITY

Print Form

Office of the Registrar  
FORM 40G REV. 4/10

REQUEST FOR ADDITION, EXPIRATION,  
OR REVISION OF A GRADUATE COURSE  
(50000-60000 LEVEL)

Graduate Council Doc. No. 10-24b  
EFD 2409

RTMENT School of Engineering Education

EFFECTIVE SESSION Fall 2010

SP 2011

Fall 2011

INSTRUCTIONS: Please check the items below which describe the purpose of this request.

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> 1. New course with supporting documents (complete proposal form) | <input type="checkbox"/> 7. Change in course attributes               |
| <input type="checkbox"/> 2. Add existing course offered at another campus                            | <input type="checkbox"/> 8. Change in instructional hours             |
| <input type="checkbox"/> 3. Expiration of a course   | <input type="checkbox"/> 9. Change in course description              |
| <input type="checkbox"/> 4. Change in course number  | <input type="checkbox"/> 10. Change in course requisites/restrictions |
| <input type="checkbox"/> 5. Change in course title   | <input type="checkbox"/> 11. Change in semesters offered              |
| <input type="checkbox"/> 6. Change in course credit/type   | <input type="checkbox"/> 12. Transfer from one department to another  |

PROPOSED:

EXISTING:

Subject Abbreviation ENE

Subject Abbreviation

Course Number 55300

Course Number

Long Title Introduction to Globalization and Engineering

Short Title Intro to Global and Engr

Abbreviated title will be entered by the Office of the Registrar if omitted. (30 CHARACTERS ONLY)

TERMS OFFERED

Check All That Apply:

Summer  Fall  Spring

CAMPUS(ES) INVOLVED

Calumet  N. Central  
 Cont Ed  Tech Statewide  
 Ft. Wayne  W. Lafayette  
 Indianapolis

CREDIT TYPE

1. Fixed Credit: Cr. Hrs.
2. Variable Credit Range:  
Minimum Cr. Hrs.   
(Check One) To  Or   
Maximum Cr. Hrs.
3. Equivalent Credit: Yes  No
4. Thesis Credit: Yes  No

COURSE ATTRIBUTES: Check All That Apply

1. Pass/Not Pass Only
2. Satisfactory/Unsatisfactory Only
3. Repeatable   
Maximum Repeatable Credit:
4. Credit by Examination
5. Special Fees
6. Registration Approval Type  
Department  Instructor
7. Variable Title
8. Honors
9. Full Time Privilege
10. Off Campus Experience

Schedule Type	Minutes Per Mtn 50	Meetings Per Week 1	Weeks Offered 16	% of Credit Allocated 100
ation				
Presentation				
Laboratory				
Lab Prep				
Studio				
Distance				
Clinic				
Experiential				
Research				
Ind. Study				
Pract/Observ				

2011 FEB -3 AM 10:11  
OFFICE OF THE REGISTRAR  
RECEIVED

COURSE DESCRIPTION (INCLUDE REQUISITES/RESTRICTIONS):

History and dynamics of globalization, and its impact on engineering practice and the lives and education of engineers. Topics include: global migration of highly-skilled people, free flow of capital and the globalization of R&D investment, world trade of commodities and high-tech products, global value chains and the process of innovation, role of multinational and metanational corporations, role of intellectual property and the global spread of technology, global outsourcing and off-shoring of engineering jobs and services, global convergence of engineering education and life-long learning. The course includes lectures by the instructor and by guest speakers representing industry and academia from all over the world. Prereqs: (1) There are no specific courses required as prerequisites (2) Students must have graduate or senior status. This course is designed assuming a maturity level congruent with students having work experience or planning to enter fulltime employment within a year.

Calumet Department Head <u>akku</u> Date	Calumet School Dean _____ Date	Professor Harris.
Fort Wayne Department Head _____ Date	Fort Wayne School Dean _____ Date	Calumet Undergrad Curriculum Committee _____ Date
Indianapolis Department Head _____ Date	Indianapolis School Dean _____ Date	Fort Wayne Chancellor _____ Date
North Central Faculty Senate Chair _____ Date	Vice Chancellor for Academic Affairs _____ Date	<u>X R. Cipra</u> 9-7-2010 Undergrad Curriculum Committee _____ Date
West Lafayette Department Head _____ Date	West Lafayette College School Dean _____ Date	Approved 1/20/11 Date Approved by Graduate Council _____
Graduate Area Committee Convener _____ Date	Graduate Dean _____ Date	Graduate Council Secretary _____ Date
		West Lafayette Registrar _____ Date



**PURDUE UNIVERSITY**  
REQUEST FOR ADDITION, EXPIRATION,  
OR REVISION OF A GRADUATE COURSE  
(50000-60000 LEVEL)

Print Form

EFD 2409

DEPARTMENT School of Engineering Education

EFFECTIVE SESSION Fall 2010 *SP 2011*

INSTRUCTIONS: Please check the items below which describe the purpose of this request.

- |                                     |  |                          |  |
|-------------------------------------|--|--------------------------|--|
| <input checked="" type="checkbox"/> | 1. New course with supporting documents (complete proposal form) | <input type="checkbox"/> | 7. Change in course attributes               |
| <input type="checkbox"/>            | 2. Add existing course offered at another campus                 | <input type="checkbox"/> | 8. Change in instructional hours             |
| <input type="checkbox"/>            | 3. Expiration of a course  | <input type="checkbox"/> | 9. Change in course description              |
| <input type="checkbox"/>            | 4. Change in course number                                       | <input type="checkbox"/> | 10. Change in course requisites/restrictions |
| <input type="checkbox"/>            | 5. Change in course title  | <input type="checkbox"/> | 11. Change in semesters offered              |
| <input type="checkbox"/>            | 6. Change in course credit/type                                  | <input type="checkbox"/> | 12. Transfer from one department to another  |

**PROPOSED:**

**EXISTING:**

Subject Abbreviation ENE Subject Abbreviation \_\_\_\_\_  
 Course Number 55300 Course Number \_\_\_\_\_  
 Long Title Introduction to Globalization and Engineering  
 Short Title Intro to Global and Engr

**TERMS OFFERED**  
Check All That Apply:

Summer  Fall  Spring

**CAMPUS(ES) INVOLVED**

Calumet  N. Central  
 Cont Ed  Tech Statewide  
 Ft. Wayne  W. Lafayette  
 Indianapolis

Abbreviated title will be entered by the Office of the Registrar if omitted. (30 CHARACTERS ONLY)

**CREDIT TYPE**

1. Fixed Credit: Cr. Hrs. 1  
 2. Variable Credit Range:  
 Minimum Cr. Hrs. \_\_\_\_\_  
 (Check One) To  Or   
 Maximum Cr. Hrs. \_\_\_\_\_  
 3. Equivalent Credit: Yes  No   
 4. Thesis Credit: Yes  No

**COURSE ATTRIBUTES: Check All That Apply**

1. Pass/Not Pass Only   
 2. Satisfactory/Unsatisfactory Only   
 3. Repeatable   
 Maximum Repeatable Credit: \_\_\_\_\_  
 4. Credit by Examination   
 5. Special Fees   
 6. Registration Approval Type  
 Department  Instructor   
 7. Variable Title   
 8. Honors   
 9. Full Time Privilege   
 10. Off Campus Experience

Schedule Type	Minutes Per Mtn 50	Meetings Per Week 1	Weeks Offered 16	% of Credit Allocated 100
Lecture				
Recitation				
Recitation				
Laboratory				
Lab Prep				
Studio				
Distance				
Clinic				
Experiential				
Research				
Ind. Study				
Pract/Observ				

**Cross-Listed Courses**  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**COURSE DESCRIPTION (INCLUDE REQUISITES/RESTRICTIONS):**

History and dynamics of globalization, and its impact on engineering practice and the lives and education of engineers. Topics include: global migration of highly-skilled people, free flow of capital and the globalization of R&D investment, world trade of commodities and high-tech products, global value chains and the process of innovation, role of multinational and metanational corporations, role of intellectual property and the global spread of technology, global outsourcing and off-shoring of engineering jobs and services, global convergence of engineering education and life-long learning. The course includes lectures by the instructor and by guest speakers representing industry and academia from all over the world. Prereqs: (1) There are no specific courses required as prerequisites (2) Students must have graduate or senior status. This course is designed assuming a maturity level congruent with students having work experience or planning to enter fulltime employment within a year.

Calumet Department Head _____ Date _____	Calumet School Dean _____ Date _____	Calumet Undergrad Curriculum Committee _____ Date _____
Fort Wayne Department Head _____ Date _____	Fort Wayne School Dean _____ Date _____	Fort Wayne Chancellor _____ Date _____
Indianapolis Department Head _____ Date _____	Indianapolis School Dean _____ Date _____	<i>X R. Cipra</i> Undergrad Curriculum Committee <u>9-7-2010</u> Date _____
North Central Faculty Senate Chair _____ Date _____	Vice Chancellor for Academic Affairs _____ Date _____	Date Approved by Graduate Council _____
West Lafayette Department Head _____ Date _____	West Lafayette College School Dean _____ Date _____	Graduate Council Secretary _____ Date _____
Graduate Area Committee Convener _____ Date _____	Graduate Dean _____ Date _____	West Lafayette Registrar _____ Date _____

OFFICE OF THE REGISTRAR

*file sent 10/10/10*



**To:** The Faculty of the College of Engineering  
**From:** School of Engineering Education  
**Subject:** New Graduate Course, ENE 55300

The faculty of the School of Engineering Education has approved the following new graduate ENE course. This action is now submitted to the Engineering Faculty with a recommendation for approval.

**ENE 55300 Introduction to Globalization and Engineering**  
Sem. 1, Lec. 1, Cr. 1.

**Prerequisite:**

Graduate or upper division undergraduate standing. Students who successfully complete ENE55400 Globalization and Engineering cannot subsequently enroll in ENE 55300.

**Course description:**

History and dynamics of globalization, and its impact on engineering practice and the lives and education of engineers. Topics include: global migration of highly-skilled people, free flow of capital and the globalization of R&D investment, world trade of commodities and high-tech products, global value chains and the process of innovation, role of multinational and metanational corporations, role of intellectual property and the global spread of technology, global outsourcing and off-shoring of engineering jobs and services, global convergence of engineering education and life-long learning. The course includes lectures by the instructor and by guest speakers representing industry and academia from all over the world.

**Reasons:**

Globalization is the most, or one of the most, influential forces of the first half of the 21st century. All students, regardless of discipline, benefit from an understanding of this force and its impact on their lives and professions. Engineers, in particular, will increasingly function in a globalized work environment. To lead and excel, engineers must understand globalization and incorporate that knowledge in their educational and career choices, as well as within their daily professional activities. This course provides an introductory framework on which students can expand their global competence. This course is designed for students planning a career in engineering or engineering education.

This credit course was previously offered as ENE 695D – Globalization and Engineering in 2006 (9 registered students) and ENE 595D – Globalization and Engineering in Fall 2007 (17 registered students) and Fall 08 (27 registered students). Average evaluation of course = 4.2 and average evaluation of instructor = 4.2.

\_\_\_\_\_  
Kamyar Haghghi, Head  
Engineering Education

**APPROVED FOR THE FACULTY  
OF THE SCHOOLS OF ENGINEERING  
BY THE ENGINEERING  
CURRICULUM COMMITTEE**

ECC Minutes #20

Date 3/23/10

Chairman ECC R. Cipra



1. Level: Graduate
2. Course Instructors: Dale Harris
3. Course Outline

**Learning Outcomes:**

- Increased global awareness
- Knowledge of the dynamics of globalization as an economic and social process
- Recognition of engineering and engineers as important social and economic actors
- Understanding the global as the horizon of interest to the engineering profession in the 21st century
- Increased understanding of the nature and roles of engineering education and life-long learning within the globalization dynamic
- Knowledge of how globalization impacts the process of innovation
- Knowledge of the engineering tools, processes, and attributes required to lead and innovate within a rapidly globalizing profession

**Textbook:** The World is Flat by Thomas Friedman (Farrar, Strauss and Giroux, 2007)

**Syllabus:** This syllabus is modeled after the course as it was taught in Fall 2008. Because of the use of case studies and the participation of guest speakers, the course syllabus would be different in details each time it is taught.

Class 1	<b>Introduction</b>
	▪ Introduction to the course; Introduction to globalization
Class 2	<b>19th Century Globalization</b>
	▪ Why important
	▪ Causes and how studied by economists, sociologists, and political scientists
	▪ Globalization dynamics - economics, migration of people, flow of capital
	▪ Impact on workers (industrial and farming)
	▪ Impact on the engineering profession
	▪ Political response leading to deglobalization and isolationism
Class 3	<b>20th and 21st Century Globalization</b>
	▪ Culture; Economics; Politics; Technology; Environment; Psychology; Migration of highly skilled labor including engineers
Class 4	<b>Case Study: Globalization of the Indian Software Services Industry</b>
Class 5	<b>Global Value Chains and Attributes of Engineers</b>
Class 6	<b>Globalization and Engineering Practice</b>
	▪ Multinational Corporations
	▪ Globalization of R&D Investment
	▪ Intellectual Property





- Outsourcing and off-shoring of engineering jobs and services
- Class 7 **Asia and the Flat World**
- Class 8 **Case Study: Entrepreneurship and Upgrading of R&D Services in India**
- Class 9 **Case Study: Rolls-Royce and the Global Gas Turbine Engine Industry**
- Class 10 **Managing Innovation in Global Engineering Environments**  
**Exam on book, The World is Flat**
- Class 11 **Europe and the Flat World**
- Class 12 **Case Study: Politics of the Global Economy**
- Class 13 **Global Governance**
  - Sovereign Nation-States
  - Multinational Corporations
  - Non-governmental Organizations (NGOs)
  - Intergovernmental Organizations (IGOs)
- Class 14 **Case Study: John Deere Corporation in China**
- Class 15 **Globalization and Engineering Education**

***Guest Speakers:***

**Parasuram Balasubramanian**

Founder and CEO, Theme Work Analytics  
Previously, Vice President, Infosys Technologies  
Previously, CEO, Hytec Software Engineers

**Professor Terrence Casey**

Department of Political Science, Rose-Hulman Institute of Technology

**Jeffery Finn**

General Manager for China Operations, John Deere Corporation

**Dr. Renate Fruchter**

Department of Civil Engineering, Stanford University

**Gopichand Katragadda**

General Manager, GE India Technology Center

**Allan Novik**

Vice President, Rolls-Royce Corporation

**Professor Balaji Parthasarathy**

International Institute of Information Technology, Bangalore, India

**Professor Bjorn Pherson**

Department of Telematics, Royal Institute of Technology, Sweden

**Peter Tannenwald**

Manager, Infosys Technologies

***Grading:***

Attendance 80%; Exam 20%



**Supporting Document for a New Graduate  
Course**

**To:** Purdue University Graduate Council

**From:** Faculty Member: Dale Harris  
Department: Engineering Education  
Campus: West Lafayette

**Date:** \_\_\_\_\_

**Subject:** Proposal for New Graduate Course-Documentation  
Required by the Graduate Council to Accompany  
Registrar's Form 40G

For Reviewer's comments only  
(Select One)

Reviewer:

Comments:

**Contact for information if  
questions arise:**

Name: Cindey Hays (temporary)  
Phone Number: 494-3884  
E-mail: isenberg@purdue.edu  
Campus Address: ARMS 1321

Course Subject Abbreviation and Number: ENE 55300

Course Title: Introduction to Globalization and Engineering

**A. Justification for the Course:**

- Provide a complete and detailed explanation of the need for the course (e. g., in the preparation of students, in providing new knowledge/training in one or more topics, in meeting degree requirements, etc.), how the course contributes to existing fields of study and/or areas of specialization, and how the course relates to other graduate courses offered by the department, other departments, or interdisciplinary programs.
- Justify the level of the proposed graduate course (50000- or 60000-level) including statements on, but not limited to: (1) the target audience, including the anticipated number of undergraduate and graduate students who will enroll in the course; and (2) the rigor of the course.

**B. Learning Outcomes and Method of Evaluation or Assessment:**

- Describe the course objectives and student learning outcomes that address the objectives (i.e., knowledge, communication, critical thinking, ethical research, etc.).
- Describe the methods of evaluation or assessment of student learning outcomes. (Include evidence for both direct and indirect methods.)
- Grading criteria (select from dropdown box); include a statement describing the criteria that will be used to assess students and how the final grade will be determined.

**Criteria**



- Identify the method(s) of instruction (select from dropdown box) and describe how the methods promote the likely success of the desired student learning outcomes.

**Method of Instruction**

**C. Prerequisite(s):**

- List prerequisite courses by subject abbreviation, number, and title.
- List other prerequisites and/or experiences/background required. If no prerequisites are indicated, provide an explanation for their absence.

**D. Course Instructor(s):**

- Provide the name, rank, and department/program affiliation of the instructor(s).
- Is the instructor currently a member of the Graduate Faculty?  Yes — No  
(If the answer is no, indicate when it is expected that a request will be submitted.)

**E. Course Outline:**

- Provide an outline of topics to be covered and indicate the relative amount of time or emphasis devoted to each topic. If laboratory or field experiences are used to supplement a lecture course, explain the value of the experience(s) to enhance the quality of the course and student learning. For special topics courses, include a sample outline of a course that would be offered under the proposed course.

**F. Reading List (including course text):**

- A primary reading list or bibliography should be limited to material the students will be required to read in order to successfully complete the course. It should not be a compilation of general reference material.
- A secondary reading list or bibliography should include material students may use as background information.

**G. Library Resources**

- Describe the library resources that are currently available or the resources needed to support this proposed course.

**H. Example of a Course Syllabus** (While not a necessary component of this supporting document, an example of a course syllabus is available, for information, by clicking on the link below, which goes to the *Graduate School's Policies and Procedures Manual for Administering Graduate Student Programs*. See Appendix K.)

[http://www.gradschool.purdue.edu/downloads/Graduate\\_School\\_Policies\\_and\\_Procedures\\_Manual.pdf](http://www.gradschool.purdue.edu/downloads/Graduate_School_Policies_and_Procedures_Manual.pdf)



## **ENE 55300 Introduction to Globalization and Engineering (one credit)**

### **Course description:**

History and dynamics of globalization, and its impact on engineering practice and the lives and education of engineers. Topics include: global migration of highly-skilled people, free flow of capital and the globalization of R&D investment, world trade of commodities and high-tech products, global value chains and the process of innovation, role of multinational and metanational corporations, role of intellectual property and the global spread of technology, global outsourcing and off-shoring of engineering jobs and services, global convergence of engineering education and life-long learning. The course includes lectures by the instructor and by guest speakers representing industry and academia from all over the world.

### **A. Justification for the Course**

- Globalization is the most, or one of the most, influential forces of the first half of the 21st century. All students, regardless of discipline, benefit from an understanding of this force and its impact on their lives and professions. Engineers, in particular, will increasingly function in a globalized work environment. To lead and excel, engineers must understand the dynamics of globalization and incorporate that knowledge in their educational and career choices, as well as within their daily professional activities. This course provides an introductory framework on which students can expand their global competence. This course is designed for students planning a career in engineering practice or engineering education.
- The course is organized as a seminar course making use of outside speakers from around the world. There is also required reading. The course targets graduate students in all engineering disciplines planning a career in engineering or engineering. The course is also suitable for undergraduate seniors. This credit course was previously offered as ENE 595 – Globalization and Engineering in Fall 2007 (17 registered students), Fall 2008 (27 registered students) and Fall 2009 (34 registered students). Average evaluation of course = 4.2 and average evaluation of instructor = 4.2. Based on enrollments in the experimental versions of the course, approximately 40 enrollments per offering are expected.

### **B. Learning Outcomes and Methods of Evaluation or Assessment**

#### ***Learning outcomes:***

- Increased global awareness
- Knowledge of the dynamics of globalization as an economic and social process





- Recognition of engineering and engineers as important social and economic actors
- Understanding the global as the horizon of interest to the engineering profession in the 21st century
- Increased understanding of the nature and roles of engineering education and life-long learning within the globalization dynamic
- Knowledge of how globalization impacts the process of innovation
- Knowledge of the engineering tools, processes, and attributes required to lead and innovate within a rapidly globalizing profession

***Methods of evaluation of learning outcomes:***

Evaluation of learning outcomes is done by

- observation of student in-class engagement and discussions
- exam results
- student written work
- end of course survey

***Grading:***

Grading is based on a combination of class attendance (this is primarily a seminar course), one exam covering the course textbook, and completion of formal notes taken on each seminar speaker.

**C. Prerequisites:**

- There are no specific courses required as prerequisites
- Students must have graduate or senior status. This course is designed assuming a maturity level congruent with students having work experience or planning to enter fulltime employment within a year.

**D. Course Instructor:**

Dale Harris  
 Professor, Engineering Education  
 Currently a member of the Graduate Faculty

**E. Course Outline:**

The syllabus below describes the course topics and indicates the relative amount of time devoted to each. Guest speakers will vary year-to-year. Those listed below participated in the experimental offering of the course in Fall 2009.



**Assigned Book:** The World is Flat, Thomas Friedman (any version).

- Week 1**            **Introduction**
- Introduction to the course
  - Introduction to globalization
- Week 2**            **19th Century Globalization**
- Why important
  - Cause
  - Dynamics - Economics, migration of people, flow of capital
  - Impact on labor (industrial and farming)
  - Impact on the engineering profession
  - Political response leading to deglobalization and isolationism
- Week 3**            **Guest Speaker: Gopichand Katragadda**  
General Manager, Engineering Operations  
GE Energy - India  
Bangalore, India
- Week 4**            **Subject of talk: Global Innovation in the Flat World**  
**20th and 21st Century Globalization**
- **Global Governance**
    - ✓ Sovereign Nation-States
    - ✓ Intergovernmental Organizations (IGOs)
    - ✓ Non-Governmental Organizations (NGOs)
    - ✓ Multinational Corporations
  - **Guest Lecture by Hari Harikumar**  
Vice President, Ingersoll Rand Engineering Center, Bangalore, India
- Week 5**            **20th and 21st Century Globalization**
- **Globalization of R&D Investment**
    - ✓ Importance and Impact
    - ✓ Drivers and Dynamics
    - ✓ Statistical Snapshot
  - **Guest Lecture by Professor Kaili Kan**  
Previous Dean of the School of Business Management  
Beijing University of Posts and Telecommunications, China
- Week 6**            **20th and 21st Century Globalization**
- **Global Dispersion of Engineering Jobs and Migration of Highly Skilled People**
    - ✓ Statistical Snapshot
    - ✓ Importance and Impact
  - **Guest Lecture by Professor Rabi Mohtar**  
Director of Global Engineering Programs, Purdue University
- Week 7**            **Guest Speaker: Bjorn Pehrson**  
Professor and Previous Chair, Department of Teleinformation  
The Royal Institute of Technology  
Stockholm, Sweden  
Subject of talk: Globalization and Engineering Education - The Swedish Perspective
- Week 8**            **20th and 21st Century Globalization**
- **Impact of Globalization on Organizations and Multinational Corporations**
    - ✓ Scientization, Rationalization, and Standardization of Organization Management
    - ✓ Innovation in the Flat World by Multinational Corporations
  - **Guest lecture by Professor Vedhathiri Thanikachalam**  
National Institute of Technical Teachers Training and Research, Chennai, India
- Week 9**            **Guest Speaker: Emily Ligget**  
CEO, NovaTorque  
Sunnyvale, California  
Subject of talk: Global Engineering Leadership in Companies Large and Small



- Week 10      **Guest Speaker: Gene Spafford**  
 Professor of Computer Science  
 Executive Director, Center for Education and Research in Information Assurance and Security  
 Purdue University  
 Subject of talk: Globalization and Intellectual Property
- Week 11      **Guest Speaker: Shyamal Majumdar**  
 Director General and CEO  
 Columbo Plan Staff College for Technical Education  
 Manila, Philippines  
 Subject of talk: Engineering and Engineering Education in the Asia Pacific Region
- Week 12      **Test on The World is Flat**
- Week 13      **20th and 21st Century Globalization**
- Globalization of Technology, Innovation, and Intellectual Property Law
    - ✓ Technology Transfer and Technology Leak
    - ✓ Distributed Research, Development, and Design
    - ✓ Standardization of Intellectual Property Law and Trends in Enforcement
  - **Guest lecture by Sergio Nacach**  
 Vice President of Andean Region Operations, Kimberly-Clark, Lima, Peru
- Week 14      **21st Century Globalization and Beyond**
- The Future of Globalization
- Week 15      **Course Conclusion and Review**

#### **F. Reading List (course text)**

The World is Flat by Thomas Friedman; Published by Picador / Farrar, Straus and Giroux (New York, 2007)

#### **G. Library Resources**

None required beyond the course text

