CEE 4404b – Advanced Topics for International Development for Engineers –
Course Outline 2018

This course introduces students to the concepts of Leadership, Management and Project Planning in international development and gives insight into how to work effectively on a development project and/or in an international context. This course will assist students to achieve a deep and broad understanding of how international development cooperation works in order to effectively use their interpersonal and engineering abilities in developing countries. The general objectives are for the student to become able to:

- Continue to develop a deep and broad understanding of how international development cooperation works
- Acquire the tools to prepare to be an effective practitioner, leader and manager of international development projects
- Evaluate international development projects on the basis of desired results, methodologies, consequences, partnerships and collaboration
- Develop an awareness of international development literature
- Apply knowledge to case studies and effectively work through making management decisions in the context of an international development project
- Improve written and oral communication skills through thoughtful class contribution, presentations, debates and discussions
- Analyze, relate and explain key development issues, problems, solutions and consequences
- Recognize the need for life-long learning to keep abreast of new methods in international development. Also to enhance one’s abilities as an effective leader and manager working collaboratively to bring the project to completion while continually enhancing one’s engineering competency.

Calendar Copy:
The course will assist students to achieve a broad understanding of being a manager of an international development project and to enable the effective use of engineering in developing countries. The course covers what works and does not work in international development, the results targeted in development work, and effective approaches and methodologies to achieve those ends.

Class/Contact Hours:
4 lecture hours per week: Wednesday 10:30-12:30 p.m. and Friday 9:30–11:30 p.m. (recommended additional personal study: 4+ hours per week).

Attendance at the lectures is mandatory.
**Prerequisites:** Admission to the Environmental Engineering with International Development Option or the Structural Engineering with International Development Option.

**Corequisites:** None

**Antirequisite:** None

*Note:* It is the student's responsibility to ensure that all Prerequisite and Corequisite conditions are met or that special permission to waive these requirements has been granted by the Faculty. It is also the student's responsibility to ensure that they have not taken a course listed as an Antirequisite. The student may be dropped from the course or not given credit for the course towards their degree if they violate the Prerequisite, Corequisite or Antirequisite conditions.

**Instructor:**

Christine Gilmore MSM, Office#: SEB 3117, Email: cgilmor4@uwo.ca. *Administrative Support:* Sandra McKay-Room 3005

**Textbook:**

International Development: A Casebook for Effective Management [Paperback ($28) in the UWO bookstore now OR e-Book ($10)]

Frederick Keenan and Christine Gilmore (Authors)

Publisher: iUniverse Inc. (01/06/2011)

**Other References:**

The *Suggested Reading and Viewing in International Development Literature* list will be posted on OWL.

Additional Reading / viewing will be provided throughout the course.

**Computing:**

Written assignments must be submitted as word processed documents in Microsoft Word or PDF formats. All assignments must be submitted with properly cited references to course instructor via email and through course website using TURNITIN.

**Units:**

SI units will be used in lectures and examinations

**Course Style / Specific Learning Objectives** (adapted from J. Gerhard, CEE 3328 course, modified by C. Gilmore)

The pedagogical model is collaborative learning, and the classes will be based on discussions, debates as well as lectures. Students are expected to come to class prepared to discuss the weekly readings and videos with your classmates. The course instructor will provide mentorship and guidance for the students to undertake individual and collective learning processes focused on achieving the course objectives.
A substantial reading list will be employed that will provide material for digestion, synthesis, and reflection in an individual book report assignment, group discussions and group debate.

Students will research topics and present their findings to the class. Guest speakers will add to previously read case studies that will illustrate practical applications of the topic material. Projects will explore pertinent areas of international development, Project Planning, Management and Leadership.

Where the students’ schedule allows, there may be ‘out of class’ visits.

By the end of the course, the student should be able to articulate her/his own learning with respect to these key points aligned with the course’s specific learning objectives:

- Show their comprehensive knowledge of what is happening in the world
- Explain what works and what doesn’t in international development cooperation
- Use effectively results based management to plan an international development project
- Use their critical faculty and knowledge to make good decisions in complex situations through use of decision matrices and be able to apply this to specific case studies
- Summarize key aspects of international development cooperation projects that have been successful and projects that have failed.
- Articulate what lessons were learned from guest lectures working on various aspects of international development cooperation
- Identify key terms used in the context of international development
- Describe major aspects learned from international development readings that will enhance one’s effectiveness as an engineer working as a Project Manager and Leader
- Be able to provide advice on international development cooperation projects
- Identify potential benefits and challenges faced by developing countries in our global community

**General Learning Objectives**

E=Evaluate, T=Teach, I=Introduce (*Beginner or Intermediate or Advanced Level*)

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**Evaluation:**

The final course mark will be determined as follows:

- News Sources Project ............ 20%
- Book/Film Review ............... 10%
- Internat. Development Topic .... 15%
- Class Contribution ............... 10%
- Final Exam ......................... 45%
- Total ....................... 100%
Note:  (a) **Students must pass the final examination to pass this course.** Students who fail the final examination will be assigned the aggregate mark, as determined above, or 48%, whichever is less.

(b) **Students must turn in all individual assignments and projects to pass this course.** Students who do not satisfy this requirement will be assigned 48% or the aggregate mark, whichever is less.

(c) **Students who have failed this course previously must repeat all components of the course.** No special permissions will be granted enabling a student to retain laboratory, assignment or test marks from previous years. Previously completed assignments and laboratories cannot be resubmitted.

(d) Should any of the classes conflict with a religious holiday that a student wishes to observe, the student must inform the instructor of the conflict no later than two weeks before the scheduled class.

(For further information on Accommodations for Religious Holidays see [http://www.uwo.ca/univsec/handbook/appeals/accommodation_religious.pdf](http://www.uwo.ca/univsec/handbook/appeals/accommodation_religious.pdf))

1. Examinations:

The final examination will be **CLOSED BOOK**. Nonprogrammable calculators are allowed. **Part marks may be awarded for some of the problems on the final exam.**

2. Assignments

   a) **Weekly Assignments and Case Studies**

   Assignments will be handed out weekly on Friday via email to all students summarizing the work for the next week’s Wednesday and Friday classes and will contain three parts:

   i) Case study information on the case study to be read for the **following Wednesday or Friday class**

   ii) Instructions for short written assignments due in the **following Wednesday or Friday’s class, at the beginning of class**, unless otherwise stated in class.

   iii) **Reminders** of upcoming speakers, student presentations etc.

   The assignments are intended to broaden students’ knowledge of international development topics and assist with class discussion.

   Case studies must be read in advance of class and students should prepare adequate notes to guide them in class discussion and debate, and assist them in preparing for guest speakers.

   Assignments must be handed in by the beginning of class on the day the assignments are due. Students are responsible for keeping a copy of their work until they have received a final grade for the assignment.

   Please, note that late assignments will be penalized as follows:

   Within 24 hrs. of deadline 10% will be deducted
   Within 48 hrs. of deadline 20% will be deducted
   Within 72 hrs. of deadline 30% will be deducted.

   Assignments handed in after 72 hrs. have passed from the deadline will not be graded.
b) Projects

Three projects will be completed for this class: the News Article Project, the Book/Film Review, and a Presentation on an international development topic of the student’s choosing.

1. A Presentation on an international development topic (20-25 minutes)

2. The News Article Project will involve weekly log submissions for 5 weeks due at the beginning of Friday’s class as well as in class news discussions for 10-15 minutes (Wednesday and Friday), culminating in a Reflection paper due on Friday March 2.

3. In the Book/Film Review project, students will read/view an international development related book/film (suggested book list provided), hand in a written report and an annotated bibliography (3-5 pages for brief summary and analysis of issue(s)—not including annotated bibliography) on Thursday, March 16 and present the development issue(s) from the book/film in class for 10 minutes on an assigned date.

3. Class Contribution (excerpt taken from CEE 3328b outline by Dr. J. Gerhard with modifications by C. Gilmore)
As this is a seminar type course, you are expected to contribute to the collective learning of the class. In order to do so, you must prepare the readings/viewings carefully in advance of the class. During class, you must listen actively to the class conversation, ask questions to your classmates, and to the guest speakers, offer insights, and contribute meaningfully. It also means that you are respectfully of your classmates and their opinions, are punctual to class, and do no engage in negative or disruptive behaviours.

It is important to discriminate between class participation and contribution. Class participation focuses on you, whereas class contribution focuses on the benefits you accrue to the class. You must engage with the class process in order to contribute to the collective learning of the class.

You will be expected to self-evaluate your class contribution and participation (mark out of 10) on a random class basis and submit this mark to the course instructor. The instructor will also make an evaluation.

4. Individual Presentations
Each student will give one (20-25 minute) presentation in class on a chosen development topic, one short (10 minute) presentation in class on the book/film reviewed. Students must present on their designated date during either the Wednesday or Friday lecture period.

5. Use of English
In accordance with Senate and Faculty Policy, students may be penalised up to 10% of the marks on all assignments, tests, and examinations for the improper use of English. Additionally, poorly written work with the exception of the final examination may be returned without grading. If resubmission of the work is permitted, it may be graded with marks deducted for poor English and/or late submission.
**Plagiarism Checking:**
The University of Western Ontario uses software for plagiarism checking. Students are required to submit their Laboratory Reports in electronic form to Turnitin.com for plagiarism checking.

**Cheating:**
University policy states that cheating is a scholastic offence. The commission of a scholastic offence is attended by academic penalties that might include expulsion from the program. If you are caught cheating, there will be no second warning.

For more information on scholastic offenses, please see:
http://www.uwo.ca/univsec/handbook/appeals/scholastic_discipline_undergrad.pdf

**Attendance:**
Any student who, in the opinion of the instructor, is absent too frequently from class, laboratory, or tutorial periods will be reported to the Dean (after due warning has been given). On the recommendation of the Department concerned, and with the permission of the Dean, the student will be debarred from taking the regular final examination in the course.

**Accessibility:**
Please contact the course instructor if you require material in an alternate format or if any other arrangements can make this course more accessible to you. You may also wish to contact Services for Students with Disabilities (SSD) at 661-2111 x 82147 for any specific question regarding an accommodation.

**Conduct:**
Students are expected to arrive at lectures on time, and to conduct themselves during class in a professional and respectful manner that is not disruptive to others. Late comers may be asked to wait outside the classroom until being invited in by the Instructor. Please turn off your cell phone before coming to a class, tutorial, quiz or exam.

On the premises of the University or at a University-sponsored program, students must abide by the Student Code of Conduct: [http://www.uwo.ca/univsec/board/code.pdf](http://www.uwo.ca/univsec/board/code.pdf)

**Sickness and Other Problems:**
Students should immediately consult with the Instructor or Department Chair if they have any problems that could affect their performance in the course. Where appropriate, the problems should be documented (see attached). The student should seek advice from the Instructor or Department Chair regarding how best to deal with the problem. Failure to notify the Instructor or Department Chair immediately (or as soon as possible thereafter) will have a negative effect on any appeal.

For more information concerning medical accommodations, please see:
http://www.uwo.ca/univsec/handbook/appeals/accommodation_medical.pdf

**Notice:**
Students are responsible for regularly checking their email, course website ([https://owl.uwo.ca](https://owl.uwo.ca)) and notices posted outside the Civil and Environmental Engineering Department Office.
Consultation:
Students are encouraged to discuss problems with their teaching assistant and/or instructor in tutorial sessions. Office hours will be arranged for the students to see the instructor and teaching assistants. Other individual consultation can be arranged by appointment with the appropriate instructor.

Course breakdown:
Natural Science = ?; Engineering Science = ?; Engineering design = ?; Complementary Studies = ?; Mathematics = ?.
Ms. Stephanie Laurence has the updated AU’s for CEE courses

The document “INSTRUCTIONS FOR STUDENTS UNABLE TO WRITE TESTS OR EXAMINATIONS OR SUBMINT ASSIGNMENTS AS SCHEDULED” is part of this course outline.
INSTRUCTIONS FOR STUDENTS UNABLE TO WRITE TESTS OR EXAMINATIONS OR SUBMIT ASSIGNMENTS AS SCHEDULED

IF, ON MEDICAL OR COMPASSIONATE GROUNDS, YOU ARE UNABLE TO WRITE TERM TESTS OR FINAL EXAMINATIONS OR COMPLETE COURSE WORK BY THE DUE DATE, YOU SHOULD FOLLOW THE INSTRUCTIONS LISTED BELOW. YOU SHOULD UNDERSTAND THAT ACADEMIC RELIEF WILL NOT BE GRANTED AUTOMATICALLY ON REQUEST. YOU MUST DEMONSTRATE TO YOUR DEPARTMENT (OR THE UNDERGRADUATE SERVICES OFFICE) THAT THERE ARE COMPPELLING MEDICAL OR COMPASSIONATE GROUNDS THAT CAN BE DOCUMENTED BEFORE ACADEMIC RELIEF WILL BE CONSIDERED. DIFFERENT REGULATIONS APPLY TO TERM TESTS, FINAL EXAMINATIONS AND LATE ASSIGNMENTS. PLEASE READ THE INSTRUCTIONS CAREFULLY. (SEE THE 2017 UWO ACADEMIC CALENDAR).

A. GENERAL REGULATIONS & PROCEDURES

1. All first year students will report to the Undergraduate Services Office, SEB 2097, for all instances.

2. If you are an upper year student and you are missing a test/assignment/lab or exam that is worth MORE THAN 10% of your final grade, you will report to the Undergraduate Services Office, SEB 2097. Otherwise, you will report to your department office to request relief.

3. Check the course outline to see if the instructor has a policy for missed tests, examinations, late assignments or attendance.

4. Documentation must be provided as soon as possible. If no one is available in your Department office or the Undergraduate Services Office, leave a message clearly stating your name & student number and reason for your call. The department telephone numbers are given at the end of these instructions.

5. If you decide to write a test or an examination you should be prepared to accept the mark you earn. Rewriting tests or examinations or having the value of a test or examination reweighted on a retroactive basis is not permitted.

B. TERM TESTS

1. If you are in first year and you are unable to write a term test, contact the Undergraduate Services Office, SEB 2097 PRIOR to the scheduled date of the test.

2. If you are an upper year student and you are unable to write a term test, inform your instructor PRIOR to the scheduled date of the test. If the instructor is not available, leave a message for him/her at the department office. If the test is worth MORE THAN 10% of your final grade you will report to the Undergraduate Services Office, SEB 2097 to request relief. Otherwise, you will report to your department office to request relief.

3. Be prepared to provide supporting documentation to the Department Chair and/or the Undergraduate Services Office (see next page for information on documentation).

4. Discuss with the instructor if and when the test can be rescheduled. N.B. The approval of the Chair or the Undergraduate Services Office is required when rescheduling term tests.

C. FINAL EXAMINATIONS

1. If you are unable to write a final examination, contact the Undergraduate Services Office PRIOR TO THE SCHEDULED EXAMINATION TIME to request permission to write a Special Final Examination. If no one is available in the Undergraduate Services Office, leave a message clearly stating your name & student number.

2. Be prepared to provide the Undergraduate Services Office with supporting documentation (see next page for information on documentation) the next day, or as soon as possible (in cases where students are hospitalized). The following circumstances are not considered grounds for missing a final examination or requesting special examinations: common cold, sleeping in, misreading timetable and travel arrangements.

3. In order to receive permission to write a Special Examination, you must obtain the approval of the Chair of the Department and the Associate Dean and in order to apply you must sign a "Recommendation for a Special Examination Form" available in the Undergraduate Services Office. The Undergraduate Services Office will then notify the course instructor(s) and reschedule the examination on your behalf.

N.B. It is the student's responsibility to check the date, time and location of the Special Examination.

D. LATE ASSIGNMENTS

1. Advise the instructor if you are having problems completing the assignment on time (prior to the due date of the assignment).

2. Be prepared to provide documentation if requested by the instructor (see reverse side for information on documentation).

3. If you are granted an extension, establish a due date. The approval of the Chair of your Department (or the Associate Dean if you are in first year) is not required if assignments will be completed prior to the last day of classes.

4. i) Extensions beyond the end of classes must have the consent of the instructor, the department Chair and the Associate Dean. Documentation is mandatory.
E. SHORT ABSENCES

If you miss a class due to a minor illness or other problem, check your course outlines for information regarding attendance requirements and make sure you are not missing a test, laboratory or assignment. Cover any readings and arrange to borrow notes from a classmate.

F. EXTENDED ABSENCES

If you are absent more than one week or if you get too far behind to catch up, you should consider reducing your workload by dropping one or more courses. (Note drop deadlines listed below). You may want to seek advice from the academic counsellor in your Department or Ms. Karen Murray in the Undergraduate Services Office, if you are in first year.

G. DOCUMENTATION

If you consulted an off-campus doctor or Student Health Services regarding your illness or personal problem, you must provide the doctor with a Student Medical Certificate to complete at the time of your visit and then bring it to the Department (or the Undergraduate Services Office). This note must contain the following information: severity of illness, effect on academic studies and duration of absence. Regular doctor’s notes will not be accepted; only the Student Medical Certificate will be accepted.

In Case of Serious Illness of a Family Member: Provide a Student Medical Certificate to your family member’s physician to complete and bring it to the Department (or the Undergraduate Services Office if you are in first year).

In Case of a Death: Obtain a copy of the death certificate or the notice provided by the funeral director’s office. You must include your relationship to the deceased and bring it to the Department (or the Undergraduate Services Office if you are in first year).

For Other Extenuating Circumstances: If you are not sure what documentation to provide, ask the Departmental Office (or the Undergraduate Services Office if you are in first year) for direction.

Note: Forged notes and certificates will be dealt with severely. To submit a forged document is a scholastic offence (see below).

H. ACADEMIC CONCERNS

1. You need to know if your instructors have a policy on late penalties, missed tests, etc. This information may be included on the course outlines. If not, ask your instructor(s).

2. You should also be aware of attendance requirements in some courses. You can be debarred from writing the final examination if your attendance is not satisfactory.

3. If you are in academic difficulty, check out the minimum requirements for progression in the calendar. If in doubt, see your academic counsellor.

Calendar References: Check these regulations in your 2017 Western Academic Calendar available at www.westerncalendar.uwo.ca.

Absences Due to Illness: http://westerncalendar.uwo.ca/2017/pg117.html
Academic Accommodations for Students with Disabilities: http://westerncalendar.uwo.ca/2017/pg118.html
Academic Accommodations for Religious or Holy Days: http://westerncalendar.uwo.ca/2017/pg119.html
Course Withdrawals: http://westerncalendar.uwo.ca/2017/pg157.html
Examinations: http://westerncalendar.uwo.ca/2017/pg129.html
Scheduling of Term Assignments: http://westerncalendar.uwo.ca/2017/pg135.html
Scholastic Offences: http://www.westerncalendar.uwo.ca/2017/pg111.html
Student Medical Certificate: http://www.uwo.ca/univsec/pdf/academic_policies/appeals/medicalform.pdf
Engineering Academic Regulations: http://www.westerncalendar.uwo.ca/2017/pg1442.html

Note: These instructions apply to all students registered in the Faculty of Engineering regardless of whether the courses are offered by the Faculty of Engineering or other faculties in the University.

Drop Deadlines:

- First term half course (i.e. “A” or “F”): November 5, 2017
- Full courses and full-year half courses (i.e. “E”, “Y” or no suffix): November 30, 2017
- Second term half or second term full course (i.e. “B” or “G”): March 7, 2017

Contact Information:

Undergraduate Services Office: SEB 2097 Telephone: (519) 661-2130 E-mail: engugrad@uwo.ca
Dept. of Chemical and Biochemical Engineering & Green Process Engineering: TEB 477 Telephone: (519) 661-2131 E-mail: cbeugrad@uwo.ca
Dept. of Civil and Environmental Engineering: SEB 3005 Telephone: (519) 661-2139 E-mail: civil@uwo.ca
Dept. of Electrical and Computer Engineering, Software Engineering & Mechatronics Engineering: TEB 279 Telephone: (519) 661-3758 E-mail: eeceugrad@uwo.ca
Dept. of Mechanical and Materials Engineering: SEB 3002 Telephone: (519) 661-4122 E-mail: mmeundergraduate@uwo.ca