This course introduces students to the background and concepts of 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 be able to effectively use their engineering abilities in developing countries. The general objectives are for the student to become able to:

- Develop a deep and broad understanding of how international development cooperation works through critical thinking and using ideas and perspectives from many disciplines
- Acquire the tools to prepare to be an effective practitioner of international development cooperation, participate in and lead collaborative efforts to address international development challenges
- Evaluate international development cooperation work on the basis of desired results and methodologies
- Deconstruct case studies, key in on important information, design solutions while keeping uppermost in mind the root-causes and consequences in the context of an international development project
- Improve written, oral communication skills and critical thinking through thoughtful class contribution, debate, presentations and discussion
- Recognize the need for life-long learning to keep abreast of new methods in international development cooperation, enhance one’s abilities as an effective practitioner, and maintain one’s professional competence.

Calendar Copy:
The course will assist students to achieve a broad understanding of international development to enable the effective use of engineering in developing countries. The course covers what works and does not work in international development. You will be involved in targeting collaboration, understanding and respecting the influences of culture, solutions, and consequences in development work.

**Prequisites:** Admission to the Environmental Engineering with International Development Option or the Structural Engineering with International Development Option.

**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.
Contact Hours: 4 lecture hours/week  Monday: 8:30-10:30 and Friday: 8:30-10:30
(additional study/homework 4+ hours per week) in-person classes

Classes begin: September 8, 2022  The first class for CEE 3327a will be Friday, Sept. 9th
Fall Reading Week: October 31 – November 6, 2022
Classes end: December 8, 2022
Exam period: December 10 – 22, 2022

Contingency plan for an in-person class pivoting to 100% online learning

In the event of a COVID-19 resurgence during the course that necessitates the course delivery moving away from face-to-face interaction, affected course content will be delivered entirely online, either synchronously (i.e., at the times indicated in the timetable) or asynchronously (e.g., posted on OWL for students to view at their convenience). The grading scheme will not change. Any remaining assessments will also be conducted online as determined by the course instructor.

Instructor:
Christine Gilmore, Email: cgilmor4@uwo.ca.
Administrative Support: Sandra McKay, SEB Room 3005
Office Hours: to be determined after discussion with class.

Textbook: Purchase of the text or the e-Book is required for this course.
International Development: A Casebook for Effective Management. Paperback is in the UWO bookstore.
Students may also purchase an e-Book from the Publisher (see below). Please do not purchase e-Book from sources other than the Publisher. Students who have done so have found discrepancies and page alignment.
Authors: Frederick Keenan and Christine Gilmore
Publisher: iUniverse Inc. (01/06/2011) ISBN: 978-1-4502-5526-4

Other References:
Additional Readings, Videos and Radio interviews will be provided throughout the course.

Course Style and Specific Learning Objectives
The pedagogical model is collaborative learning. The classes will be based on a combination of discussions, debates, readings, videos, presentations and lectures.

The course instructor will provide mentorship and guidance for the students to undertake individual and collective learning processes focused on achieving the course objectives.

Case studies that will illustrate true to life, practical applications of the topic material and course assignments will explore pertinent areas of international development.

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 [IESE1]
• Explain what works and what doesn’t in international development cooperation [IESE 1, 2, 3, CS 2]
• Use effectively results based management to plan an international development project [IESE 1]
• Use their critical thinking to make good decisions in complex situations in group work [ITW 2, ITW 3, PR 2]
• Demonstrate their knowledge of the decision making processes in international development projects through use of decision matrices and be able to apply this knowledge to specific case studies [IESE 2]
• Summarize key aspects of international development cooperation projects that have been successful and those that have failed [IESE 1, 2, 3]
• Articulate what lessons were learned from various aspects of international development cooperation [CS 2]
• Identify key terms used in the context of international development [CS 2]
• Describe major aspects from international development readings that will enhance one’s effectiveness as an engineer working in international development. [ITW 1, 3, IESE 1, 2, 3, CS 2, 3]
• Be able to provide advice on international development cooperation projects [IESE 3, 1, 2.]
• Improve written, communication and presentation skills [CS 2, CS 3]
• Identify challenges, circumstances and consequences faced by developing countries in our global community [IESE 1]

**General Learning Objectives**

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<thead>
<tr>
<th>E=Evaluate, T=Teach, I=Introduce (Developing Level)</th>
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<tr>
<td>Problem Analysis</td>
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<td>Investigation</td>
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<td>Design</td>
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<td>Engineering Tools</td>
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**Evaluation Breakdown:**

The final course mark will be determined as follows:

- Class Participation/Contribution: ....................... 10%
- Weekly News Assignments + Reflection paper 20%
- Country + I D Topic Presentation..................... 15%
- Quiz ......................................................... 15%
- Written Final Examination ................................ 40%

**Total** 100%

Your marks will be a combination of written assignments sent to OWL’s Assignments site, your opinions and analysis expressed throughout classroom discussion and, individual presentations.
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.

1. **Mid Term Quiz and Final Examination:**

There will be a one hour Mid Term Quiz that is **tentatively** scheduled for **Friday, October 14th**. The 3 hour final examination will be written in-person **CLOSED BOOK**. The class may be divided into groups, with each group having variations in the questions of the final exam.

2. **Assignments:**

   a) **Assignments:**

   **Three assignments** will be completed for this class: the News Article Project (20%), a Language/Culture / ID Topic Presentation –individual student (15%) and a written Quiz (15%)

   The News Article Assignment will involve **4 weekly news log submissions** due on the dates stated on the information sheet, plus a Reflection paper on a scheduled date (**send to News Log #1, News Log #2 etc. , in OWL- Assignments**)

   The Language/Culture, International Development Topic Presentation, involves each student choosing a country and I D topic. Then using the guidelines provided on the information sheet, present the information for 20-22 minutes in class on the date provided.

   The QUIZ will be written in-person- conducted **during class time**.

   Marks for your class contribution will also be given for a **Group Case Analysis and Presentation**.

**Weekly Case Studies, Articles, videos:**

*Homework*-Assignments and readings for discussions will be **communicated via OWL**. Class tabs (left hand side of screen) weekly

**(on each Monday class tab)** which gives **6 days in advance** of when work is due and will contain:

i) Case study information, articles, videos, guideline questions etc. to be written for your notes to be used in class discussions. Discussions concerning your ideas and content may be conducted at an opportune time in class.

These 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.

Students are responsible for keeping a copy of their written work.

**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.

3. **Class Contribution/Participation 10%** *(in-person classes)*
During our classroom discussions, the student is responsible to contribute to the class conversation, ask questions to your classmates, offer insights and opinions. It also means that you are: respectful of your classmates and their opinions, are arriving on time to class, and not engaging in negative or disruptive behaviours.

**You will be asked to ‘self-evaluate’ your contributions in random classes.** The instructor will also make an evaluation of your contributions. Marks for your class contribution will also be given for a Group Case Analysis and Presentation.

4. **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.

**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, has not engaged sufficiently in 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.

**Religious Accommodation**
When a course requirement conflicts with a religious holiday that requires an absence from the University or prohibits certain activities, students should request accommodation for their absence in writing at least two weeks prior to the holiday to the course instructor and/or the Academic Counselling office of their Faculty of Registration. Please consult University's list of recognized religious holidays (updated annually) at

**Accommodation Policies:**
Students with disabilities work with Accessible Education (formerly SSD) which provides recommendations for accommodation based on medical documentation or psychological and cognitive testing. The accommodation policy can be found here: Academic Accommodation for Students with Disabilities.


**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. 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

**Sickness and Other Problems:**

Instructors are encouraged to arrange participation requirements and multiple small assignments in such a way as to allow students some flexibility (e.g., by grading based on the best n–2 of n quizzes or assignments) to reduce the number of requests for academic considerations and consequent burden on both instructors and academic counsellors. Where academic considerations are required, the student should be given clear direction.

If you are unable to meet a course requirement due to illness or other serious circumstances, please follow the procedures below.

**Assessments worth less than 10% of the overall course grade:**

For work worth less than 10% of the total course grade, the instructor is empowered to grant academic considerations without referring the student to their academic counsellors. If an instructor chooses to do so, the mechanism for dealing with missed work (e.g., an extension, make-up opportunity, or reweighting) must be specified on the course outline to ensure fair treatment for all students. Note that in all cases where documentation (medical or otherwise) is required, it can only be collected by the student’s Dean’s Office Academic Counselling unit.

**Assessments worth 10% or more of the overall course grade:**

By policy, academic considerations for work totalling 10% or more of the final course grade can be granted only by the student’s Faculty of Registration (typically by their academic counsellors). In such cases, students should be directed as follows.

For work totalling 10% or more of the final course grade, you must provide valid medical or supporting documentation to the Academic Counselling Office of your Faculty of Registration as soon as possible. For further information, please consult the University’s medical illness policy at


The Student Medical Certificate is available at
Clearly define how the absence will be handled (e.g., an extension, make-up opportunity, or reweighting).

When defining the rules for excused absences, you should ensure that the essential requirements of the course are still met. For example, if the final examination is not cumulative, it would normally be advisable to offer a make-up for the midterm test rather than a reweighting to the final.

Absences from Final Examinations

If you miss the Final Exam, please contact Western Engineering Undergraduate Services as soon as possible. They will assess your eligibility to write the Special Examination.

You may also be eligible to write the Special Exam if you are in a “Multiple Exam Situation” (e.g., more than 2 exams in 23-hour period, more than 3 exams in a 47-hour period).

If a student fails to write a scheduled Special Examination, the date of the next Special Examination (if granted) normally will be the scheduled date for the final exam the next time this course is offered. The maximum course load for that term will be reduced by the credit of the course(s) for which the final examination has been deferred. See the Academic Calendar for details (under Special Examinations).

Note: missed work can only be excused through one of the mechanisms above. Being asked not to attend an in-person course requirement due to potential COVID-19 symptoms is not sufficient on its own.

Academic Policies:

The website for Registrarial Services is http://www.registrar.uwo.ca.
In accordance with policy, https://www.uwo.ca/univsec/pdf/policies_procedures/section1/mapp113.pdf,

the centrally administered e-mail account provided to students will be considered the individual’s official university e-mail address. It is the responsibility of the account holder to ensure that e-mail received from the University at their official university address is attended to in a timely manner.

No electronic devices will be required on tests and exams: e.g., calculators.

Scholastic offences are taken seriously, and students are directed to read the appropriate policy, specifically, the definition of what constitutes a Scholastic Offence, at the following Web site: http://www.uwo.ca/univsec/pdf/academic_policies/appeals/scholastic_discipline_undergrad.pdf.

Support Services:

Please visit the Western Engineering Undergraduate Services webpage for information on adding/dropping courses, academic considerations for absences, appeals, exam conflicts, and many other academic related matters: https://www.eng.uwo.ca/undergraduate/index.html

Students who are in emotional/mental distress should refer to Mental Health@Western (https://uwo.ca/health/) for a complete list of options about how to obtain help.
Western is committed to reducing incidents of gender-based and sexual violence and providing compassionate support to anyone who has gone through these traumatic events. If you have experienced sexual or gender-based violence (either recently or in the past), you will find information about support services for survivors, including emergency contacts at


To connect with a case manager or set up an appointment, please contact support@uwo.ca.

Please contact the course instructor if you require lecture or printed material in an alternate format or if any other arrangements can make this course more accessible to you. You may also wish to contact Accessible Education at

http://academicsupport.uwo.ca/accessible_education/index.html

if you have any questions regarding accommodations.

Learning-skills counsellors at the Student Development Centre (https://learning.uwo.ca) are ready to help you improve your learning skills. They offer presentations on strategies for improving time management, multiple-choice exam preparation/writing, textbook reading, and more. Individual support is offered throughout the Fall/Winter terms in the drop-in Learning Help Centre, and year-round through individual counselling.

Western University is committed to a thriving campus as we deliver our courses in the mixed model of both virtual and face-to-face formats. We encourage you to check out the Digital Student Experience website to manage your academics and well-being: https://www.uwo.ca/se/digital/.

Additional student-run support services are offered by the USC, https://westernusc.ca/services/.

Course Breakdown: (Values given in accreditation units)

Engineering Science = 100%

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

Academic Consideration provides students with consistent, fair, and academically appropriate consideration, when they are unable to complete some component of a course due to extenuating circumstances.

If you have missed or will miss a course-related component (e.g. laboratory or tutorial) or a course-related assessment (e.g. quiz) you may be eligible to request an Academic Consideration to make arrangements to complete the missed course work at a later time. Academic Consideration for course-related components and assessments may include:

§ Class Attendance/Tutorial Attendance/Laboratory Attendance

§ Midterm Exam/Test

§ Presentation/Essay/Assignment

§ Quiz

There are three ways you can request academic consideration:

§ Self-Reported Absence

§ Medical Absence

§ Non-Medical Absence

The nature of your circumstance/request will determine which route to pursue in requesting Academic Consideration. Factors affecting your eligibility for consideration or which method would be most appropriate for you to submit your request are:

§ The duration of time needed.

§ The number of Self-Reported Absences submitted within the Term

§ The credit weight of the course-related component

Tip: Remember to send notification of your absence within the acceptable timeframe for your type of absence. Make sure to communicate with your instructor about your absence and to plan for completing any missed coursework.

Medical Absence and Non-Medical Absence – Use the Accommodation Consideration Request Form.

Please note: If the assessment you are missing is less than 10% of your final grade, your form will be approved by the CEE department; if it worth 10% or more, your form will be approved by Engineering Undergraduate Services.
Student Medical Certificate to be attached to Accommodate Request Form if absence is due to illness.

**Extended Absences** – two weeks or more. Please make an appointment with your Academic Counsellor in Engineering Undergraduate Services (https://www.eng.uwo.ca/undergraduate/academic-support-and-accommodations/academic-counselling.html)

In Case of Serious Illness of a Family Member: Provide a Student Medical Certificate to your family member's physician to complete and submit it with your Accommodation Consideration Request.

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 submit it with your Accommodation Consideration Request.

For other Extemuating Circumstances: Please complete the Accommodation Consideration Request Form with an explanation and any documentation.

**Final Examinations**

If you are unable to write a final examination, you should contact Undergraduate Services to request permission to write a Special Examination.

In order to receive permission to write a Special Examination, you must fill out the Academic Consideration Request form AND the Application for a Special Exam form. If approved, the Undergraduate Services Office will then notify the course instructor(s) and if it is an Engineering exam(s) you missed, reschedule the examination(s) on your behalf. Students writing examinations for outside engineering courses (ie. Applied Math, Computer Science, Physics, etc) will need to check with that department to find out the date, time & location of their exam(s).

Please note: It is the student's responsibility to check the date, time, and location of the special examination.

You will need to provide supporting documentation explaining the reason for your absence. If you are ill and visit a doctor, they will need to fill out the Student Medical Certificate. You will upload this documentation in the Academic Consideration Request Form.

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.

**Additional Resources** To connect with health and wellness resources on campus visit: https://www.uwo.ca/health/

To book an appointment with psychological services visit: https://www.uwo.ca/health/psych/index.html

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

Self-Reporting Absences
Absences Due to Illness
Academic Accommodations for Students with Disabilities
Academic Accommodations for Religious or Holy Days
Course Withdrawals
Examinations
Scheduling of Term Assignments
Scholastic Offences
Student Medical Certificate
Engineering Academic Regulations

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.

Contact Information:
Undergraduate Services   Office SEB 2097   Phone: 519-661-2130
E-mail: engugrad@uwo.ca

Civil Engineering:   SEB 3005   Phone: 519-661-2139   E-mail: civil@uwo.ca