APPLICATION FOR NEW COURSE

1.	**General Information.**						
a.	Submitted by the College of:	Engineering			Today's Date:	12/03/09	
b.	Department/Division:	College of Engineering					
c.	Contact person name:	Dr. G. T. Lineberry	Email:	gtli@engr.uky.edu	Phone:	7-2833	
d.	Requested Effective Date:	☒ Semester following approval	OR	☐ Specific Term/Year[1] :	_____		
2.	**Designation and Description of Proposed Course.**						
a.	Prefix and Number:	EGR 390					
b.	Full Title:	Experiential Learning in Engineering or Computer Science					
c.	Transcript Title (if full title is more than 40 characters):	_____					
d.	To be Cross-Listed[2] with (Prefix and Number):	_____					
e.	Courses must be described by at least one of the meeting patterns below. Include number of actual contact hours[3] for each meeting pattern type.						
	3 Lecture	_____ Laboratory[1]	_____ Recitation	Discussion	Indep. Study		
	_____ Clinical	_____ Colloquium	Practicum	Research	_____ Residency		
	_____ Seminar	_____ Studio	XXX 45 Other – Please explain:	Engineering Service Learning			
f.	Identify a grading system:	☒ Letter (A, B, C, etc.)	☐ Pass/Fail				
g.	Number of credits:	0-3					
h.	Is this course repeatable for additional credit?				YES ☒	NO ☐	
	If YES:	Maximum number of credit hours:	3				
	If YES:	Will this course allow multiple registrations during the same semester?			YES ☒	NO ☐	
i.	Course Description for Bulletin:	Project or activity led by an engineering faculty member, designed to provide students the opportunity to apply engineering principles in the context of real-world and multi-disciplinary community-based problems. May be repeated to a maximum of three credits. Prereq: Engineering standing and consent of DUS and instructor.					
j.	Prerequisites, if any:	Engineering standing					
k.	Will this course also be offered through Distance Learning?				YES[4] ☐	NO ☒	
l.	Supplementary teaching component, if any:	☐ Community-Based Experience	☐ Service Learning	☒ Both			
3.	**Will this course be taught off campus?**				YES ☒	NO ☐	
4.	**Frequency of Course Offering.**						

[1] Courses are typically made effective for the semester following approval. No course will be made effective until all approvals are received.

[2] The chair of the cross-listing department must sign off on the Signature Routing Log.

[3] In general, undergraduate courses are developed on the principle that one semester hour of credit represents one hour of classroom meeting per week for a semester, exclusive of any laboratory meeting. Laboratory meeting, generally, represents at least two hours per week for a semester for one credit hour. (from *SR 5.2.1*)

[4] You must *also* submit the Distance Learning Form in order for the proposed course to be considered for DL delivery.

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a.	Course will be offered (check all that apply):	☒ Fall	☒ Spring	☒ Summer
b.	Will the course be offered every year?		YES ☒	NO ☐
	If NO, explain: _____			
5.	**Are facilities and personnel necessary for the proposed new course available?**		YES ☒	NO ☐
	If NO, explain: _____			
6.	**What enrollment (per section per semester) may reasonably be expected?** 1-6			
7.	**Anticipated Student Demand.**			
a.	Will this course serve students primarily within the degree program?		YES ☒	NO ☐
b.	Will it be of interest to a significant number of students outside the degree pgm?		YES ☐	NO ☒
	If YES, explain: _____			
8.	**Check the category most applicable to this course:**			
	☐ Traditional – Offered in Corresponding Departments at Universities Elsewhere			
	☐ Relatively New – Now Being Widely Established			
	☒ Not Yet Found in Many (or Any) Other Universities			
9.	**Course Relationship to Program(s).**			
a.	Is this course part of a proposed new program?		YES ☐	NO ☒
	If YES, name the proposed new program: _____			
b.	Will this course be a new requirement[5] for ANY program?		YES ☐	NO ☒
	If YES[5], list affected programs:	All majors in the College of Engineering, including Computer Science; programs may determine their own application of credits (e.g., supportive elective only, technical elective, complement to an existing course, laboratory, or seminar)		
10.	**Information to be Placed on Syllabus.**			
a.	Is the course 400G or 500?		YES ☐	NO ☒
	If YES, the *differentiation for undergraduate and graduate students must be included* in the information required in ***10.b***. You must include: (i) identification of additional assignments by the graduate students; and/or (ii) establishment of different grading criteria in the course for graduate students. (See *SR 3.1.4*.)			
b.	☐ The syllabus, including course description, student learning outcomes, and grading policies (and 400G-/500-level grading differentiation if applicable, from ***10.a*** above) are attached.			

[5] In order to change a program, a program change form must also be submitted.

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Signature Routing Log

General Information:

Course Prefix and Number: EGR 390

Proposal Contact Person Name: G. T. Lineberry Phone: 7-2833 Email: gtli@engr.uky.edu

INSTRUCTIONS:

Identify the groups or individuals reviewing the proposal; note the date of approval; offer a contact person for each entry; and obtain signature of person authorized to report approval.

Internal College Approvals and Course Cross-listing Approvals:

Reviewing Group	Date Approved	Contact Person (name/phone/email)	Signature
Engineering Undergrad Education Team	4/10	Richard Sweigard 7-8827 rsweigar@engr.uky.edu	Richard D Sweigard
College of Engineering Faculty	10/21/10	Richard Sweigard 78827	Richard D Sweigard
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External-to-College Approvals:

Council	Date Approved	Signature	Approval of Revision[6]
Undergraduate Council	2/1/2011	Sharon Gill Digitally signed by Sharon Gill DN: cn=Sharon Gill, o=Undergraduate Education, ou=Undergraduate Council, email=sgill@uky.edu, c=US Date: 2011.02.04 09:47:21 -05'00'	
Graduate Council			
Health Care Colleges Council			
Senate Council Approval		University Senate Approval	

Comments:

[6] Councils use this space to indicate approval of revisions made subsequent to that council's approval, if deemed necessary by the revising council.

Proposed Course: **EGR 390 Experiential Learning in Engineering or Computer Science**

Course Description: **Project or activity led by an engineering faculty member, designed to provide undergraduates the opportunity to apply engineering principles to help solve real-world, community-based problems. May be repeated to a maximum of three credits. Prereq: Engineering standing and consent of chairperson and Associate Dean for Commonwealth & International Programs**

NOTE: **Below is a SAMPLE syllabus; a course suitable for an EGR 390 offering was taught in Summer 2009 under an experimental number in Civil Engineering**

COURSE: CE 599-001 Service-Based Learning Experience (Summer 2009), 3 cr.

TIME and PLACE: 8/1/09-8/14/09; Banda Aceh, Indonesia, with on-campus activities (data analysis and report-writing) following Indonesia-based data collection.

INSTRUCTOR: Dr. Nick Stamatiadis, Professor of Civil Engineering; 257-8012; nstamat@engr.uky.edu

COURSE GOAL:

To provide students with an international experience; to allow students to gain from exposure to non-classroom environments; and to allow students to contribute their expertise in a developing country.

COURSE CONTENT:

This course focuses on the working with local entities (University and local authorities) in addressing the issues relative to a problem determined by the local entities. The project deals with the development of a routing system for trash collection in Banda Aceh, Indonesia. First, the problem needs to be defined through a series of meetings with local entities. Second, specific components of trash collection are to be determined for inclusion in the decision process. Third, possible alternative routes will be identified and evaluated based on selected criteria to be identified in cooperation with local authorities. Fourth, an analysis of the routes is to be completed and the best alternative should be selected based on travel times and economic considerations for the project. Finally, a report will be prepared and submitted to the local authorities for review and implementation.

OBJECTIVES:

Students will be evaluated on oral presentations and written reports on their ability to accomplish the following course objectives:

1. To become familiar with the project issues.
2. To be capable of designing a routing plan for the trash collection.
3. To use engineering principles to develop and evaluate alternative routes.
4. To communicate technical and non-technical design issues and results in both oral and written form.

COURSE COMPONENTS, REQUIREMENTS, AND GRADING:

Project

The main means for evaluating the students' performance is their ability to complete the assigned project per the requirements of the local authorities. The final report of the project will be due on **Friday, 2 December, 2009.** The description and details of the project will be defined once we are in Indonesia to accommodate the local requirements and desires. In general, the project will involve the identification and evaluation of possible routes to be used to transport trash form a collection station to a landfill and an economic evaluation will accompany the findings.

A technical report of **professional quality** should be completed for the project presenting the problem definition, analysis procedure, and findings of the analysis. More details will be presented at a later date, when the requirements and final issues are addressed while in Banda Aceh.

Oral Presentations

An oral presentation for the project is required. The presentations will be given to various groups of students (such as ASCE and IT student chapters) as well as faculty in the CE Department to demonstrate the work.

GRADING:

The weight distribution for the grade in this course is as follows:

Project Report	90%	90 - 100 = A
Oral presentations	10%	80 - 89 = B
		70 - 79 = C
		60 - 69 = D

GRADES WILL NOT BE ADJUSTED AT ANY TIME USING ANY CURVE OR SCHEME.

TEAMWORK:

Working with other students is required for the group project. Each individual will be required to provide a confidential assessment of the work contribution of other members at the end of the project and with each homework. If at any time during the term a group member is considered to not be contributing to the course work, the instructor should be notified immediately to act as an arbitrator.