

PURDUE UNIVERSITY
REQUEST FOR ADDITION, EXPIRATION,
OR REVISION OF AN UNDERGRADUATE COURSE
(10000-40000 LEVEL)

EFD 5-14

ENGR 29701

201510

DEPARTMENT Office of Professional Practice EFFECTIVE SESSION F2014 201510

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

- | | |
|---|---|
| <input checked="" type="checkbox"/> 1. New course with supporting documents | <input type="checkbox"/> 7. Change in course attributes (department head signature only) |
| <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 |
| <input type="checkbox"/> 5. Change in course title | <input type="checkbox"/> 11. Change in semesters offered (department head signature only) |
| <input type="checkbox"/> 6. Change in course credit/type | <input type="checkbox"/> 12. Transfer from one department to another |

PROPOSED:

Subject Abbreviation ENGRCourse Number 29701 - 29700Long Title Global Engineering Orientation-GEAREShort Title Global Eng Orientation - GEARE

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

EXISTING:

Subject Abbreviation Course Number

TERMS OFFERED

Check All That Apply:

☐ Summer ☒ Fall ☐ Spring

CAMPUS(ES) INVOLVED

<input type="checkbox"/> Calumet	<input type="checkbox"/> N. Central
<input type="checkbox"/> Cont Ed	<input checked="" type="checkbox"/> Tech Statewide
<input type="checkbox"/> Ft. Wayne	<input checked="" type="checkbox"/> W. Lafayette
<input type="checkbox"/> Indianapolis	

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 ☐

1. Pass/Not Pass Only ☐
2. Satisfactory/Unsatisfactory Only ☐
3. Repeatable ☐
Maximum Repeatable Credit:
4. Credit by Examination ☐
5. Fees ☐ Coord ☐ La ☐ Rate Request ☐
- Include comment to explain fee

COURSE ATTRIBUTES: Check All That Apply

- 6 Registration Approval Type ☐
- Department ☐ Instructor ☒
- 7 Variable Title ☐
- 8 Honors ☐
- 9 Full Time Privilege ☐
- 10 Off Campus Experience ☐

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

Cross-Listed Courses

RECEIVED
FEB 04 2014
OFFICE OF THE REGISTRAR

COURSE DESCRIPTION (INCLUDE REQUISITES/RESTRICTIONS):

Forum in preparation of study and work abroad as part of undergraduate GEARE program. Understanding of cultural differences and collaborating across cultural boundaries, professionalism and ethics in foreign work and academic environments, leadership and teamwork options in foreign environments. Restrictions: GEARE students only Prerequisite: Junior standing Permission of instructor is required

*COURSE LEARNING OUTCOMES

The instructor will serve as the facilitating body to moderate the progress of the students through the course and assess outcomes through group discussion, attendance, on final report and one case study group presentation.

Students will be provided with foundation in global engineering communication skills, outline teamwork and leadership opportunities available through participation in the global engineering community, be provided with globally diverse and multicultural experiences and discuss case studies to prepare them for upcoming international internships and semester study abroad, identify resources available for academic studies and industrial work experience abroad, and develop a strong ethical framework and cultural sensitivity to prepare for the global professional workplace.

Calumet Department Head	Date	Calumet School Dean	Date
Fort Wayne Department Head	Date	Fort Wayne School Dean	Date
Indianapolis Department Head	Date	Indianapolis School Dean	Date
North Central Faculty Senate Chair	Date	Vice Chancellor for Academic Affairs	Date
West Lafayette Department Head	Date	West Lafayette College/School Dean	Date

Sandra Schaffner 2/20/14
West Lafayette Registrar

OFFICE OF THE REGISTRAR

LAM 2/19/14

PURDUE UNIVERSITY
REQUEST FOR ADDITION, EXPIRATION,
OR REVISION OF AN UNDERGRADUATE COURSE
(10000-40000 LEVEL)

EFD 5-14

ENGR 39799

201430

DEPARTMENT Office of Professional Practice

EFFECTIVE SESSION

SS2013

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

- | | |
|---|---|
| <input checked="" type="checkbox"/> 1. New course with supporting documents | <input type="checkbox"/> 7. Change in course attributes (department head signature only) |
| <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 |
| <input type="checkbox"/> 5. Change in course title | <input type="checkbox"/> 11. Change in semesters offered (department head signature only) |
| <input type="checkbox"/> 6. Change in course credit/type | <input type="checkbox"/> 12. Transfer from one department to another |

PROPOSED:

Subject Abbreviation ENGR

Course Number 39799

Long Title GEARE Domestic Internship

Short Title GEARE Domestic Internship

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

EXISTING:

Subject Abbreviation

Course Number

TERMS OFFERED

Check All That Apply:

☒ Summer ☒ Fall ☒ Spring

CAMPUS(ES) INVOLVED

<input type="checkbox"/> Calumet	<input type="checkbox"/> N. Central
<input type="checkbox"/> Cont Ed	<input checked="" type="checkbox"/> Tech Statewide
<input type="checkbox"/> Ft. Wayne	<input checked="" type="checkbox"/> W. Lafayette
<input type="checkbox"/> Indianapolis	

CREDIT TYPE

- | | |
|---------------------------|--------|
| 1. Fixed Credit: Cr. Hrs. | 0 |
| 2. Variable Credit Range: | |
| Minimum Cr. Hrs | |
| (Check One) To Or | |
| Maximum Cr. Hrs | |
| 3. Equivalent Credit: | Yes No |

- | | |
|--|-------------------------------------|
| 1. Pass/Not Pass Only | <input type="checkbox"/> |
| 2. Satisfactory/Unsatisfactory Only | <input checked="" type="checkbox"/> |
| 3. Repeatable | <input type="checkbox"/> |
| Maximum Repeatable Credit: | |
| 4. Credit by Examination | <input type="checkbox"/> |
| 5. Fees <input type="checkbox"/> Coord <input checked="" type="checkbox"/> Lab <input type="checkbox"/> Rate Request | |
| Include comment to explain fee | |

COURSE ATTRIBUTES: Check All That Apply

- | | | |
|------------------------------|-------------------------------------|--|
| 6 Registration Approval Type | Department <input type="checkbox"/> | Instructor <input checked="" type="checkbox"/> |
| 7 Variable Title | | |
| 8 Honors | | |
| 9 Full Time Privilege | | |
| 10 Off Campus Experience | | |

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

RECEIVED
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Cross-Listed Courses

COURSE DESCRIPTION (INCLUDE REQUISITES/RESTRICTIONS):

Sem. 1, 2 or SS, cr. 0

Restrictions: GEARE students only

Prerequisite: Sophomore standing or consent of instructor

Domestic internship experience for GEARE program. Program coordinated by Office of Professional Practice with cooperation of participating employers. Students to obtain professional practice with domestic employers within industry, government or small business.

*COURSE LEARNING OUTCOMES

The Assistant Director of Global Professional Practice Programs in the Office of Professional Practice serves as the facilitating body to (1) moderate the progress of students through the requirements of the GEARE program requirements and (2) assess course outcomes via: student evaluation of work sessions and work session technical report.

Calumet Department Head Date Calumet School Dean Date

Fort Wayne Department Head Date Fort Wayne School Dean Date

Indianapolis Department Head Date Indianapolis School Dean Date

North Central Faculty Senate Chair Date Vice Chancellor for Academic Affairs Date

West Lafayette Department Head Date West Lafayette College/School Dean Date

West Lafayette Registrar

OFFICE OF THE REGISTRAR

LAM 2/19/14

PURDUE UNIVERSITY
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(10000-40000 LEVEL)

EFD 5-14

ENGR 39899

SP2013 201430

DEPARTMENT Office of Professional Practice

EFFECTIVE SESSION

SP2013

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

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1. New course with supporting documents
2. Add existing course offered at another campus
3. Expiration of a course
4. Change in course number
5. Change in course title
6. Change in course credit/type

☐
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☐
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7. Change in course attributes (department head signature only)
8. Change in instructional hours
9. Change in course description
10. Change in course requisites
11. Change in semesters offered (department head signature only)
12. Transfer from one department to another

PROPOSED:

Subject Abbreviation

ENGR

Course Number

39899

Long Title

GEARE Global Internship

Short Title

GEARE Global Internship

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

EXISTING:

Subject Abbreviation

Course Number

TERMS OFFERED

Check All That Apply:

☒

Summer

☒

Fall

☒

Spring

CAMPUS(ES) INVOLVED

☐

Calumet

☐

Cont Ed

☐

Ft. Wayne

☐

Indianapolis

☐

N. Central

☐

Tech Statewide

☒

W. Lafayette

CREDIT TYPE

1. Fixed Credit: Cr. Hrs.

0

2. Variable Credit Range:

Minimum Cr. Hrs

(Check One)

To

Or

Maximum Cr. Hrs

3. Equivalent 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. Fees ☐ Coord ☒ Lab ☐ Rate Request

Include comment to explain fee

6 Registration Approval Type

Department ☐Instructor ☒

7 Variable Title

8 Honors

9 Full Time Privilege

10 Off Campus Experience

Schedule Type

Minutes

Meetings Per

Week

Weeks

Offered

% of Credit

Allocated

Lecture

Recitation

Presentation

Laboratory

Lab Prep

Studio

Distance

Clinic

Experiential

Research

Ind. Study

Pract/Observ

X

100

Cross-Listed Courses

RECEIVED
FEB 04 2014
OFFICE OF THE REGISTRAR

COURSE DESCRIPTION (INCLUDE REQUISITES/RESTRICTIONS):

Sem. 1, 2 or SS, cr. 0

Restrictions: GEARE students only

Prerequisite: Junior standing or consent of instructor

Global internship experience for GEARE program. Program coordinated by Office of Professional Practice with cooperation of participating employers. Students to obtain professional practice with global employers within industry, government or small business.

*COURSE LEARNING OUTCOMES

The Assistant Director of Global Professional Practice Programs in the Office of Professional Practice serves as the facilitating body to (1) moderate the progress of students through the requirements of the GEARE program requirements and (2) assess course outcomes via: student evaluation of work sessions and work session technical report.

Calumet Department Head

Date

Calumet School Dean

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Fort Wayne Department Head

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Date

Indianapolis Department Head

Date

Indianapolis School Dean

Date

North Central Faculty Senate Chair

Date

Vice Chancellor for Academic Affairs

Date

West Lafayette Department Head

Date

West Lafayette College/School Dean

Date

West Lafayette Registrar

OFFICE OF THE REGISTRAR

TO: Engineering Faculty
FROM: Office of Professional Practice
SUBJECT: New Professional Practice Courses ENGR 29700, ENGR 39799, and ENGR 39899

The Office of Professional Practice has approved the following new courses relating to the GEARE program. In September 2009 it was determined that OPP will be the official administrative unit for the GEARE program., including communication of GEARE acceptance, maintaining student records, facilitating internships, teaching orientation course, and administering program assessment. As part of this responsibility, completion of domestic and global internships needs to be verified.

This action is now submitted to Engineering Faculty with a recommendation for approval.

ENGR 29700: Global Engineering Orientation-GEARE

Sem. 1, cr. 1.

Restrictions: GEARE students only

Prerequisite: Junior standing or consent of instructor

Preparation for GEARE experience abroad. Permission of instructor is required.

ENGR 39799: GEARE Domestic Internship

Sem. 1,2, SS, Cr. 0

Restrictions: GEARE Students only

Prerequisite: Sophomore standing or consent of instructor

To obtain professional practice with domestic employers within industry, government, or small business.

ENGR 39899: GEARE Global Internship

Sem. 1,2 SS, Cr. 0

Restrictions: GEARE students only

Prerequisite: Junior standing or consent of instructor

To obtain professional practice with global employers within industry, government, or small business

RATIONALE: To allow appropriate administration of the GEARE program and tracking of its requirements by the Office of Professional Practice.



Eckhard Groll, Dr. Eng.
Director of Office of Professional Practice
Reilly Professor of Mechanical Engineering

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

ECC Minutes

Date

Chairman ECC

1/28/14
1/28/14
JH 2 Jy

**GEARE ME-OPP Meeting
Monday December 12, 2011**

Present: Eckhard Groll, Jim Jones, Jerry Matthews, Yating Haller, Dianna Atkinson, Chuck Krousgrill and Cindy Quillen

1. GEARE TRADEMARK

Prof. Groll will contact Dan Hirleman about the status of the GEARE Trademark. (Note: There is no trademark on GEARE. In the meantime, Prof. Hirleman has withdrawn his request to use the GEARE name for a program at UC Merced.)

2. GEARE REQUIREMENTS

The GEARE calendar was approved. Prof. Groll's goal is to have students accepted into the program and monitored as to their progress. The students' POS will need to be updated to reflect the GEARE requirements. The student will need to update their POS anytime changes are made. To admit students in the sophomore year, the POS will need to be checked by OPP to verify that 12 credit hours of foreign language can be completed before spring of the junior year.

Checks should be done at beginning of sophomore year to verify language requirements are on track and that GPA is still 3.0 or above. At the beginning of the junior year in addition to the language and GPA requirements, the completion of the domestic internship needs to be verified. At the beginning of the senior year, completion of the international internship needs to be checked. Students who do not meet requirements will be dropped from the GEARE program, but are still eligible for the minor. For the GPA requirement, it was proposed that there is a gray-zone between a GPA of 2.8 (or 2.9) and 3.0 where exceptions can be made. However, below a minimum GPA of 2.8 or 2.9, GEARE students should not be allowed to participate. OPP will arrange a GEARE Coordinators meeting to determine the exact minimum GPA.

For students to successfully participate in GEARE, they will need to help find their domestic and international internships. We need to let them know that we can't guarantee the internships although we will try to help them as much as we can.

Prof. Groll would like to give a certificate to the students who successfully complete the GEARE requirements. It was agreed that the GEARE requirements are:

- 12 credit hours in a foreign language program to be completed before studying abroad,
- participation in a 1-credit hour cultural orientation seminar course

- one US summer internship to be completed before going abroad (minimum of 10 weeks),
- one semester of study abroad with a minimum of 12 credit hours,
- one international internship in the same language as the semester study abroad (minimum of 10 weeks), and
- participation in a global design team project for at least one semester (minimum of 3 credit hours).

Each discipline will determine which option they will accept as fulfilling the global design team project. Possible options are: GEP global design project, senior capstone design course with the GEARE students or other international teammates, or independent senior project course on a design project with global focus. The international teammate requirement will need to be monitored to make sure it doesn't become trivial. OPP will propose and monitor these requirements as the GEARE model, but OPP will not be able to prohibit disciplines from making exceptions.

3. ME GEARE PARTNERS

Prof. Groll asks that there be at least 4 country options for ME majors: Germany, China, Spain and an English speaking country. Vellore Institute of Technology in India or University of Queensland in Australia were discussed as options. An English opportunity is needed for students studying languages such as Japanese or Italian.

We will reiterate to the GEARE students the importance of working with the respective academic disciplines.

4. OTHER TOPICS

Prof. Groll proposed that a GEARE senior design course be developed for GEARE students in all disciplines. The class will have to take into account the disciplines senior capstone design course requirements.

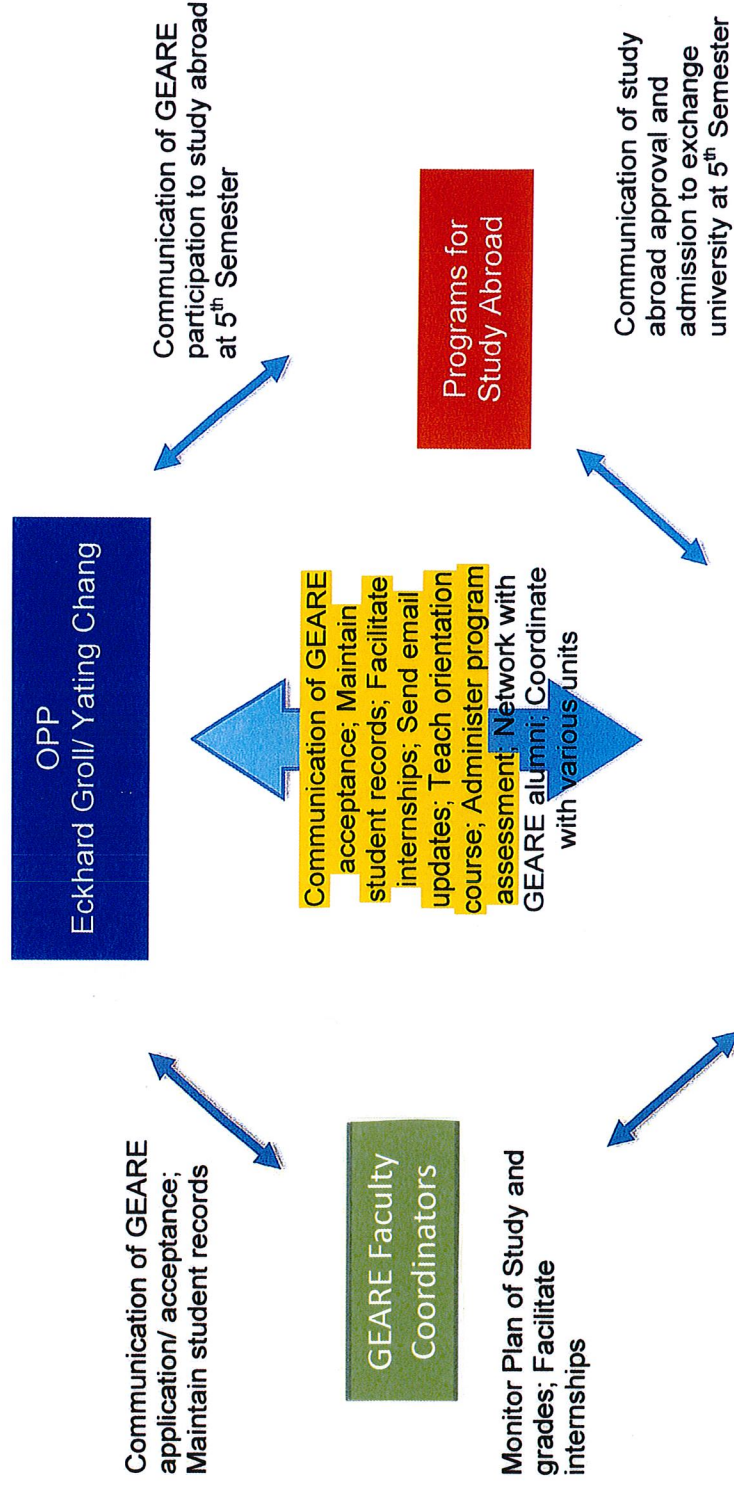
Prof. Groll announced his interim appointment as the Interim Assistant Dean for Research in the College of Engineering. He will not be teaching next spring. He will meet with Prof. Jones to discuss a replacement for the senior design course.

It was discussed as to which students should be taking Yating Haller's GEARE orientation class and which students should be taking Dianne Atkinson's China ETA orientation class. Until there is a significant block of non-GEARE students for another country, the present status quo will be maintained. All of the GEARE students will take Yating Haller's class, and all of the China ETA students will take Dianne Atkinson's class. Yating will allow non-China ETA students to audit the class, until the numbers grow. The course offerings will be reevaluated at that time.

Global Engineering Alliance for Research and Education (GEARE)

Organizational Chart

- OPP will be the official administrative unit for GEARE program
- OPP will serve as the main contact with Programs of Study Abroad
- Each school will have a GEARE Faculty Coordinator and assigned assistant



GEARE Coordinators and Assistants

AAE Bill Anderson Marc Williams	62658 45137	wanderso@purdue.edu williams@purdue.edu	IDE Philip Wankat	47422	wankat@purdue.edu
ABE John Lumkes Martin Okos	41173 41211	lumkes@purdue.edu okos@purdue.edu	EEE John Sutherland Tammi Thayer	69697 67238	jwsuther@purdue.edu thayert@purdue.edu
BME Andrew Brightman Jeremy Hale	63537 47871	aob@purdue.edu hale2@purdue.edu	IE Pat Brunese Vince Duffy	49611 66658	pbrunese@purdue.edu duffy@purdue.edu
CHE Jim Litster Zoltan Nagy	40756 40734	ilitster@purdue.edu zknagy@purdue.edu	MSE Vicki Cline	44103	vicline@purdue.edu
CE Marta Lah Becky Hull	62379 62379	mlah@purdue.edu bhull@purdue.edu	ME Chuck Krousgrill Jerry Matthews	45738 45702	krousgr@purdue.edu jmatthew@purdue.edu
ECE Jeff Gray Cindy Quillen	43390 43391	grayj@purdue.edu cquillen@purdue.edu	NE Anter El-Azab Chrystal Randler	66864 45749	aelazab@purdue.edu crandler@purdue.edu