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

DEPARTMENT MCET

EFFECTIVE SESSION Summer 2013

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

- New course with supporting documents
- Add existing course offered at another campus
- Expire of a course
- Change in course number
- Change in course title
- Change in course credit

PROPOSED:

Subject Abbreviation ARE
Course Number 225
Long Title Creative House Design
Short Title House Design

EXISTING:

Subject Abbreviation
Course Number
Long Title Creative House Design
Short Title House Design

Abbreviated title will be entered by the Office of the Registrar if omitted. (25 CHARACTERS ONLY)

TERMS OFFERED

Check All That Apply:

- Fall
- Spring
- Summer

CAMPUS(ES) INVOLVED

- Calumet
- Cont Ed
- Ft. Wayne
- Tech Statewide
- Indianapolis
- W. Lafayette

CREDIT TYPE

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

3. Equivalent Credit: Yes No

COURSE ATTRIBUTES: Check All That Apply

- 1. Pass/No Pass Only
- 2. Satisfactory/Uncsatisfactory Only
- 3. Repeatable
- 4. Credit by Examination
- 5. Fees: Coop Lab Request

Include comment to explain fee

Schedule Type

- Lecture
- Recitation
- Presentation
- Laboratory
- Lab Prep
- Studio
- Distance
- Clinic
- Experience
- Research
- Ind. Study
- Pract/Observe

Minutes Per MTh
Meetings Per Week
Weeks Offered
% of Credit Allocated

50 3 10

COURSE DESCRIPTION (INCLUDE REQUISITES/RESTRICTIONS):

Using fundamentals of space planning and pattern language students design their own home. A written justification for design decisions will be required.

* COURSE LEARNING OUTCOMES:
- Master Vocabulary and Tools of Residential Design
- Master Modeling and Rendering Software w/Analysis
- Create Personal Expression based on Social and Global Issues

Columbian Department Head
Date

Ft. Wayne Department Head
Date

Indianapolis Department Head
Date

North Central Faculty Senate Chair
Date

West Lafayette Department Head
Date

Columbian School Dean
Date

Ft. Wayne School Dean
Date

Indianapolis School Dean
Date

Vice Chancellor for Academic Affairs
Date

West Lafayette College/School Dean
Date

West Lafayette Registrar
Date

OFFICE OF THE REGISTRAR
General Education Course Proposal Form

1. Check the general-education area to which the course belongs:
   Creative and Artistic Expression

2. Supply the course prefix and number:
   ARET 225

3. Supply the course title:
   Creative House Design

4. Supply the course credit hours:
   Three credit hours

5. Provide the course description:
   Using fundamentals of space planning and pattern language, students design their own home. A written justification for their design decisions will be required. Their project will be 3d modeled in Google SketchUp software and photo-realistically adjusted using Photoshop software

6. Identify the school/division and department responsible for the course:
   ETCS College – MCET Department – Architectural Engineering Technology Program

7. Identify the academic session in which the course will first be offered as a general-education course:
   Spring 2013

8. Identify the frequency of scheduling of the course:
   Spring – Fall - Summer

9. Identify the enrollment maximum:
   24

10. Identify the course instructor(s):
    DJ Marshall
Department Chair or Director in Charge of Course: Iskandar Hack

Signature: ____________________________ Date: 10/22/2012

Dean: Max Yen

Signature: ____________________________ Date: 11/19/12

(General Education Subcommittee use only)

Approval of General Education Subcommittee Date:

Received by the VCAA for Implementation Date:
MCET Department
Architectural Engineering Technology
ARET 225 – Creative House Design – 3 credits

SketchUp and Photoshop software are used in 3d modeling and rendering a student designed house. Lectures and videos are the basis for the architectural techniques and software presented.

Professor D.J. Marshall, Architect & Associate Professor
Office in ETCS 221d
Office Hours: 12-1:00  Mon, Tues, Wed, Thurs (or appointment)
260.481.6577 (or) marshald@ipfw.edu
MCET Secretary “Sandy” at 260.481.4127

PREREQUISITES: There are NO prerequisites for this course.

TEXTBOOK: There is currently no textbook. Handouts will be available on Blackboard

REQUIRED PURCHASE: Architectural Scale (include 1/8", 3/16", 1/4" markings minimum)
USB Flash Drive (2gig recommended minimum)

OUTCOMES: The students will become familiar with the terminology, techniques, and architectural considerations involved in the design, modeling, and rendering of a residential dwelling. A written explanation of the student’s intentions and justifications will be required along with the digital final project’s submission.

ATTENDANCE: Students shall attend EVERY scheduled meeting. Excused absences are those allowed by the instructor BEFOREHAND.

BEHAVIOR: Absolutely NO cellphone use or other distractions allowed during class or lab. Generally as stated in the Student Handbook (page 5). Specifically in this class, absences, late arrivals, early leaving, gossiping, chatting up or doing unrelated work in required class or lab meetings is not allowed without the expressed prior permission of the instructor.

GRADING -  A+ = 97-100%   A = 93-96%   A- = 90-92%
   B+ = 87-89%   B = 83-86%   B- = 80-82%
   C+ = 77-79%   C = 73-76%   C- = 70-72%
   D+ = 67-69%   D = 63-66%   D- = 60-62%   F = 0-59%

CHEATING, plagiarism, collecting, sharing or accepting tests or test questions are all grounds for failure of this course with a grade of zero. Now is the time to learn this material so essential to your career, later is for learning other important material.
Summer 2013 - SCHEDULE

Course: ARET 167 Materials and Systems of Construction
Instructor: Professor D.J. Marshall II, Architect
Office: 221d ETCES Building, IPFW Campus
Phone: 260.481.6577  Office hours 12-2:00 M,T,W,R and by appointment

MAY
17 Mon  Orientation video – purchase equipment
18 Tues  Residential space requirements
19 Wed  Residential space arrangement
20 Thur  Preliminary student floorplan drawing
21 Fri  Drawing review and consultation

24 Mon  Finished floorplan sketch
25 Tues  Projected elevations
26 Wed  Drawing review and consultation
27 Thur  Design justification report
28 Fri  Introduction to SketchUp

JUNE
31 Mon  Modeling floorplan & walls
1 Tues  Modeling doors & windows
2 Wed  Modeling bathroom/kitchen fixtures & furniture
3 Thur  Modeling details
4 Fri  Miscellaneous adjustments

7 Mon  Introduction to rendering
8 Tues  The rendering process
9 Wed  Project output review
10 Thur  Introduction to Photoshop
11 Fri  Photoshop adjustments

14 Mon  Project review and consultation
15 Tues  Introduction to presentation boards
16 Wed  Demonstration of board composition
17 Thur  PowerPoint presentation
18 Fri  Work on final project

21 Mon  Work on final project
22 Tues  Work on final project – required consultation
23 Wed  Work on final project
24 Thur  Work on final project – final consultation
25 Fri  Course Wrap-up day – all projects and assignments due

READ THIS! It is the Students Responsibility to keep to a schedule regarding this class. It is not possible to learn all of the above material in a few short days before an exam, and students attempting to do so should not expect extraordinary help from the instructor. The Habitat, Scavenger, and Wheelchair projects are due One Week after the scheduling of them. Late projects are reduced 10% - Missed Quizzes get a grade of Zero.
**TAC / ABET Program Outcomes**

**ARET 225 – Creative House Design**

In accordance with our accrediting agency ABET, we need to demonstrate accord with both their general criteria (Gen-a through Gen-k) and more specific program criteria (Aret-a through Aret-i). For the purposes of this course four (4) general criteria are addressed in this course and are listed below with their accompanying rationales.

1. **Gen_a – An appropriate mastery of the knowledge, techniques, skills & modern tools of their discipline**

   **DIRECT MEASURE** - by means of the professional of projects projects

   There is no specific ABET requirement to master architectural design techniques in the Architectural Engineering Technology program, but there is undoubtedly an expectation that graduates of this program are familiar with modeling software and designing. This introductory design course can reasonably be considered an appropriate contribution to the mastery of knowledge in the architectural engineering technology discipline.

2. **Gen_i – An ability to understand professional, ethical and social responsibilities.**

   **INDIRECT MEASURE** – by means of met or unmet project criteria

   In the design of a residential dwelling, multiple criteria related to the health, safety, and welfare of the public in general are stated. In addition, building codes are expected to be followed throughout the design. Appropriate application of all these criteria is the responsibility of technologists as well as professionals.

3. **Gen_J – A respect for diversity and a knowledge of contemporary professional, societal and global issues**

   **INDIRECT MEASURE** – by means of explanations during final project presentation

   Students are encouraged to consider global as well as cultural or personal issues when determining the governing principles of their design. All students will be required to highlight and summarize all of these issues in a final project report.

4. **Gen_k – A commitment to quality, timeliness, and continuous improvement.**

   **DIRECT MEASURE** – by means of course requirements in this syllabus.

   All projects are required to be of high quality and be handed in on time or a grade penalty ensues. By department expectations, a faculty evaluation of each semester course is sent to the department chair along with expected changes to the course as continuous improvement.