

# Bonus Opportunities

## Fall II 2015

### \*\*\*Rules and Regulations\*\*\*

During a half semester term, you may complete bonus activities to earn up to **but NOT exceed 2% bonus on your final grade** in each of the following courses: ENGR 1050, 1060, 1070, and 1080.

- Different types of bonus activities include: ASC workshops, Library Workshops, Events, Individual Reflection Projects (IRPs), or Student Lingos Online Workshops. **You may not repeat any of the workshops, IRPs, or Student Lingo modules at any time within the ENGR course sequence.**
- If you are enrolled in more than one GE course this semester (eg. ENGR 1060 + ENGR 1070), you may only use each workshop once – for either course, but not both. Which means...if you are in both classes, you must complete 8 bonus activities (4 per class) to get the full amount of extra credit in each class. Bonus points are awarded only to the class where the bonus is initially submitted, and are not transferrable between classes or terms.
- Each workshop title will only count once per semester. If you attend a workshop with the same title more than once, say on two separate days, it will only count as one bonus option.
- If you are unable to attend these events due to a required, recurring activities (work, athletics), please speak with your instructor by **November 13** to determine alternative opportunities for bonus for the semester.

The list is divided by month. You may turn in a bonus page, action plan, or IRP at any time during the semester to the bin labeled "Bonus Opportunities" in the main General Engineering Office (104 Holtz). Students must demonstrate a high quality of work to receive credit for any IRP or Student Lingo action plan. **The final day for submission of bonus activities for Fall II is Friday, December 4<sup>th</sup> at 12:00 P.M.**

#### ASC or Library Workshops

- You must be pre-registered, on time, attentive, engaged, and present for the entire workshop, or the instructor has the right to refuse to sign your bonus worksheet. **You also must bring this worksheet printed out to be signed with you or you will not receive credit for attending.** Only activities submitted using this worksheet will be accepted...scraps of paper are not given credit.
- Each workshop is worth 0.5%.

*\*\* This list is published before the semester begins, and dates / times / locations of available workshops may change. Workshops may be added after the semester begins. Any Academic Success Center workshop is eligible for bonus unless excluded above – simply complete the "Workshop not listed above" line on the worksheet for credit. Please check the website listed for the workshop for updated information. \*\**

#### Student Lingo Modules

- These online modules can be accessed at <https://www.studentlingo.com/clemsonasc>.
- Each module is worth 0.25% (2 Student Lingo Modules = 1 Bonus Opportunity) and you may complete a maximum of 4 modules in one half-semester term. **You may not repeat Student Lingo modules within the ENGR course sequence.**
- To receive credit for a Student Lingo workshop you must select a module, watch the video associated with that module, and then **print, complete and turn in the "Action Plan" that accompanies the module**. The action plans are linked on the main Student Lingo page.

#### Individual Reflection Projects (IRPs)

- IRPs may be found at the end of this document.
- Each IRP counts as 0.5%, and you may complete a maximum of 2 in one, half-semester term.
- You may select one option from each category (IRP A, IPR B, etc) per half semester.
- Individual options (IRP A1, IRP C3, etc) may not be repeated at any time within the ENGR course sequence.


## October 2015: ASC Workshops

Date Time	Title	Verified	Type	Instructions
10/19 5:00 – 6:00	<b>Credit 101</b>		ASC Workshop	<p>Register at ASC website:  <a href="http://www.clemson.edu/asc/workshops/?s=Fall">http://www.clemson.edu/asc/workshops/?s=Fall</a></p> <p>After attending the workshop, have the workshop leader sign in the "VERIFIED" column.</p>
10/19 6:15 – 7:00	<b>Understanding your Carbon Footprint</b>			
10/20 12:30 – 1:30	<b>Success with Study Groups</b>			
10/22 5:00 – 6:00	<b>WORKING TOWARD EXCELLENCE 8 Values for Achieving Uncommon Success in Work and Life</b>			
10/27 5:00 – 6:00	<b>Raise Your GPA from the Dead</b>			
10/28 5:00 – 6:00	<b>Finding Your Career Path</b>			
10/29 5:00 – 6:00	<b>Reading and Notetaking</b>			
*Workshop not listed above				
*Workshop not listed above				

## October 2014: Library Workshops

Date Time	Title	Verified	Type	Instructions
10/14 12:30 – 1:20	<b>Patent Searching Basics</b>		Library	<p>Register at Library website:  <a href="http://clemson.libguides.com/librarytraining">http://clemson.libguides.com/librarytraining</a></p> <p>After attending the workshop, have the workshop leader sign in the "VERIFIED" column.</p>
10/28 3:30 – 4:20	<b>Patent Searching Basics</b>			

## October 2015: Events

Date Time	Title	Verified	Type	Instructions
10/27 6:30 – 8:00  Holtzendorff Lobby	 <p><b>Major Discovery</b></p>		Professional Development	<p><i>Now that you have started to consider choosing a major, stop by and talk to some alumni and upperclassmen in the various engineering fields.</i></p> <p><i>Get your questions answered about classes, co-op, research opportunities, student organizations...talk student-to-student with juniors and seniors in the various engineering majors. Come and ask the alumni how they choose their major, and what their major is really like in the "real world".</i></p> <p><i>Cosponsored by Tau Beta Pi, the Engineering Honor Society. No registration is required for this event.</i></p>

## November 2015: ASC Workshops

Date Time	Title	Verified	Type	Instructions
11/2 5:00 – 5:45	Countdown to Finals		ASC Workshop	<p>Register at ASC website: <a href="http://www.clemson.edu/asc/workshops/?s=Fall">http://www.clemson.edu/asc/workshops/?s=Fall</a></p> <p>After attending the workshop, have the workshop leader sign in the "VERIFIED" column.</p>
11/3 12:30 – 1:15	Countdown to Finals			
11/4 5:00 – 6:00	COLLEGE WRITING SURVIVAL SKILLS A Workshop to Help You Write like an Academic			
11/5 12:30 – 1:20	Professor Communication 101			
11/9 12:20 – 1:10	Avoiding Plagiarism			
11/9 5:30 – 6:15	Apps for Learning			
11/10 4:00 – 5:00	Memory Tips			
11/11 5:00 – 6:00	Test Anxiety			
11/12 3:30 – 4:30	Retaining Scholarships: LIFE, HOPE, Palmetto Fellows			
11/16 7:00 – 8:00	This is an Exam...This is Only a Final Exam			
11/16 4:00 – 4:50	The Finals Approach			
11/17 12:30 – 1:20	The Finals Approach			
11/19 5:00 – 6:00	Identity Protection			
11/19 6:30 – 7:15	Boost Your Brain – Sleep – a STAR workshop			
11/30 12:20 – 1:10	Last Minute Tips for Finals			
*Workshop not listed above				
*Workshop not listed above				

## November 2015: Library Workshops

Date Time	Title	Verified	Type	Instructions
11/3 12:20 – 1:10	Engineering Village – the best place to start your engineering research		Library	<p>Register at Library website:  <a href="http://clemson.libguides.com/librarytraining">http://clemson.libguides.com/librarytraining</a></p> <p>After attending the workshop, have the workshop leader sign in the "VERIFIED" column.</p>
11/10 3:30 – 4:20	Engineering Village – the best place to start your engineering research			
11/17 12:20 – 1:10	Web of Science – a great research database for engineers			
11/24 3:30 – 4:20	Web of Science – a great research database for engineers			

Name: \_\_\_\_\_ Course: \_\_\_\_\_ / Section: \_\_\_\_\_ USERID: \_\_\_\_\_

## December 2015: ASC Workshops

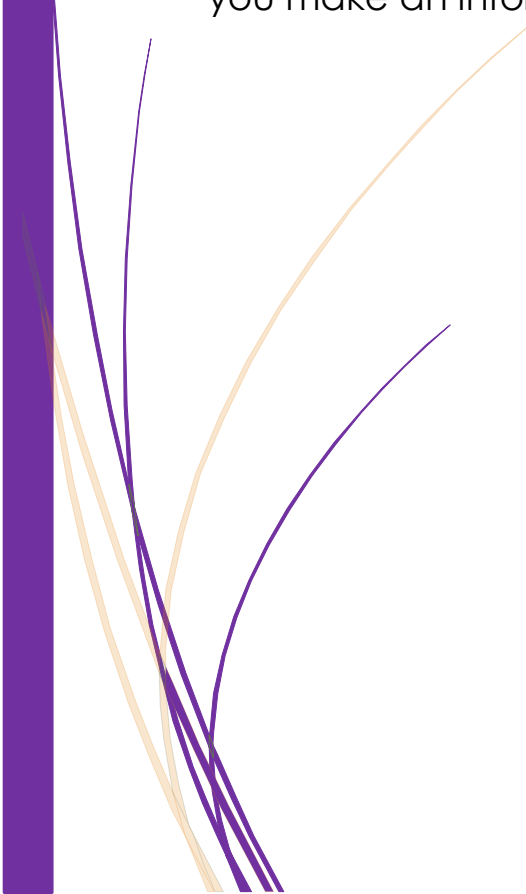
Date Time	Title	Verified	Type	Instructions
12/1 12:30 - 1:30	<b>It's Not Over 'til It's Over</b>		ASC Workshop	Register at ASC website: <a href="http://www.clemson.edu/asc/workshops/?s=Fall">http://www.clemson.edu/asc/workshops/?s=Fall</a>
12/3 11:15 - noon	<b>Stress Management - Stress Release</b>			After attending the workshop, have the workshop leader sign in the "VERIFIED" column.
*Workshop not listed above				
*Workshop not listed above				



Fall I 2015

# Individual Reflection Portfolio

The purpose of the Individual Reflection Portfolio (IRP) is to help you make an informed decision when choosing a major.



**ENGR 1050, 1060,  
1070 and 1080**

## Overview

The Individual Reflection Portfolio (IRP) is designed to give you insight into the different facets of the engineering majors offered here at Clemson so that you may feel more prepared to choose the major that will best suit you. You will be given the opportunity to perform an in depth exploration of the different majors here at Clemson, both virtually and physically.

How you choose to report your IRP is completely up to you. You may write a report, prepare a presentation, make a collage, etc. Hardcopy materials submitted to 104 Holtzendorff should be stapled or packaged together as a single item. Hardcopy IRP materials are due by 4:30 pm on October 2, 2015 to count for Fall I. Please note that EVERYTHING you submit must be TYPED. Handwritten answers on notebook paper are NOT acceptable! Each IRP should include your name, course and section, username, date, and the IRP Option letter and number.

### IRP A: Exploring the Engineering Majors at Clemson

*For this portion of the IRP, you will examine the different engineering majors offered at Clemson. You can either:*

**Option A1:** For each of the 10 engineering majors offered at Clemson, write two sentences to describe the discipline.

or

**Option A2:** Choose the 3 engineering majors that interest you most. Write a one-page summary comparing and contrasting the majors. Then, rank the majors by your most likely choice to least likely choice, and explain why you are choosing this order.

Your descriptions of the majors must be in your own words and not copied from a website or catalog. Please note that EVERYTHING you submit must be TYPED. Handwritten answers on notebook paper are NOT acceptable!

### IRP B: Exploring Engineering as a Career

*For this portion of the IRP, you will reflect on your dream job, and you have 4 options:*

**Option B1:** Complete Review Question 4 from Chapter 1 of the TLAE textbook (see page 34).

or

**Option B2:** Complete ICA Question 2-7 from Chapter 2 of the TLAE textbook (see page 54).

or

**Option B3:** Complete Review Question 9 from Chapter 9 of the TLAE textbook (see page 110).

or

**Option B4:** Find at least 2 current job postings for engineering positions that interest you. Provide a link for the job postings, and then describe what about these positions is interesting to you. Write about what you are currently planning to choose as a major and how that could help you in those positions. If you are currently considering more than one major, it is okay to find job postings for each of the potential majors you are considering and compare and contrast those. Reflect on the skills and talents you possess that would help you to succeed in the positions you find. If you think that a career in research could be interesting to you, you may want to choose a research-related posting versus an industry posting.

## IRP C: Grand Challenges

For this portion of the IRP, you will reflect on the National Academy of Engineering Grand Challenges for Engineering that were discussed in class (<http://www.engineeringchallenges.org/>). You have 2 options:

**Option C1:** Complete Review Question 3 from Chapter 1 of the TLAE textbook (see page 33).

or

**Option C2:** Complete a “Ten Hundred Words of Science” essay explaining one of the NAE Grand Challenges. The “Ten Hundred Words of Science” is a challenge to explain something complex using only the most common ten hundred words in the English language, and as an example, this sentence contains 10 words that would not meet those requirements! You can use “The Up-Goer Five Text Editor” (available at: <http://splasho.com/upgoer5/>) to write your essay, and it will let you know when you’ve used a word that is not one of the most common words. Copy and paste your essay into a Word document before submitting.

## IRP D: Exploring Clemson's Campus

The purpose of this portion is to help you learn more about engineering and Clemson's campus, heritage, and students. You have a choice of completing a scavenger hunt around campus (option 1) or writing about some of the places and opportunities on campus (option 2). How you report your findings is up to you – you may write a report, create a PowerPoint presentation, make a collage, etc. Please note that **EVERYTHING** you submit must be **TYPED**. Handwritten answers on notebook paper are **NOT** acceptable!

## Option D1: Scavenger Hunt

While this scavenger hunt is designed to allow you to get to know Clemson and engineering even better, it is also designed to allow you to have fun. Use this assignment to be creative, take your pictures with friends, and learn about how engineers have fun and succeed around Clemson's campus. You'll hopefully have a fun collection of pictures from around campus to share with friends and family. **Be sure to be RESPECTFUL of the campus when taking pictures. Do NOT climb on statues!**

You must take at least 10 pictures around campus and include a short description of each. The pictures must appear in the order given below. The description must discuss the item in terms of the importance or relationship to Clemson. **You must be in each picture.**

- |  |   |
|--|---|
| <input type="checkbox"/> A picture of you ... in front of the engineering building that houses your intended major | <input type="checkbox"/> ... at Fort Hill (don't go on a tour; it's said to be bad luck to go before you graduate!) |
| <input type="checkbox"/> ... and the Tau Beta Pi (The Engr Honor Society) bent                                     | <input type="checkbox"/> ... at the Botanical Gardens   |
| <input type="checkbox"/> ... and Thomas Green Clemson  | <input type="checkbox"/> ... outside of the advising office   |
| <input type="checkbox"/> ... and Walter Cox  | <input type="checkbox"/> ... with your academic advisor (availability limited)                                      |
| <input type="checkbox"/> ... at UTA hours  | <input type="checkbox"/> ... with your ENGR professor at office hours (availability limited)                        |
| <input type="checkbox"/> ... in front of the Academic Success Center   | <input type="checkbox"/> ... wearing orange   |
| <input type="checkbox"/> ... in front of the Michelin Career Center  | <input type="checkbox"/> ... with a metal paper airplane sculpture on campus (model airplanes excluded)             |
| <input type="checkbox"/> ... and a group of engineers studying (must be identified as engineers somehow)           | <input type="checkbox"/> ... with the Carillon Bell in the Carillon Gardens   |
| <input type="checkbox"/> ... with you and a tiger (real, bronze, mascot, etc.)                                     | <input type="checkbox"/> ... and the Six Degrees of Freedom Statue  |
| <input type="checkbox"/> ... at Death Valley   | <input type="checkbox"/> ... with the Centennial Oak  |
| <input type="checkbox"/> ... in front of a list of events at Brooks Center   | <input type="checkbox"/> ... at Littlejohn Coliseum   |

*Note: You may take pictures with your peers as long as you submit your own and you are in the picture!*

## IRP D: Exploring Clemson's Campus, continued

## Option D2: Writing Assignment

Choose 5 of the following, and write a description as if you were describing them to a high school senior who is not familiar with Clemson's campus. Explain the purpose or significance of each. For some, you may want to explain history or contribution, and for others, you may want to focus on opportunities for Clemson students. The items must appear in the order given below. You must cite any sources that you use! Any format is acceptable for your citations.

- |   |  |
|---|--|
| <input type="checkbox"/> Academic Success Center – SI                               | <input type="checkbox"/> Death Valley  |
| <input type="checkbox"/> Academic Success Center – Tutoring                         | <input type="checkbox"/> General Engineering UTA Hours   |
| <input type="checkbox"/> Academic Success Center - Workshops                        | <input type="checkbox"/> Michelin Career Center  |
| <input type="checkbox"/> Clemson Biomedical Engineering Innovation Campus (CUBEInc) | <input type="checkbox"/> Study Abroad  |
| <input type="checkbox"/> Clemson Wind Turbine Drivetrain Testing Facility           | <input type="checkbox"/> Tau Beta Pi   |
| <input type="checkbox"/> Co-op and Internship                                       | <input type="checkbox"/> The professional organization for your intended major (e.g., ASME for mechanical engineering or IIE for industrial engineering) |
| <input type="checkbox"/> Creative Inquiry   |  |
| <input type="checkbox"/> CU-ICAR  |  |

## Option D3: Everyday Engineering Objects

*The purpose of this portion of the project is designed to help you hone your engineering eye as well as to let you be creative and have fun! You'll look around for different man-made objects that (reasonably) resemble the letters of the alphabet and take a picture. Then, you'll provide a brief description of the engineering aspects of at least three of the "letters" you submit. Try to spell your name or an engineering related word or phrase, like ENGINEER or GO TIGERS!*

You have multiple options for submitting your work. You may choose to submit a "hardcopy" by creating a scrapbook, poster, etc. For three of the images, you must submit a written description. However you decide to submit the images and text, you must be sure that it is easy for your instructor to locate, navigate, and read. It should be clear which discussions are associated with the images.

## Instructions:

- Take at least 10 unique pictures to represent 10 letters! Photos must be taken by YOU, and not downloaded from the web.
- All images must be of man-made objects, structures, or devices. Pictures of actual letters are not permitted, even if they are part of an object, structure, or device.
- If the image contains a small part of a bigger object, and it is impossible to tell what the bigger object is from your image, you must submit an additional photo of the bigger object.
- The image must be at least 300 x 500 pixels.
- Submit 10 photos. Each photo must include:
  - Title: describe what the photo is
  - Description: provide details on where and approximately when the photo was taken; include a description of the larger object, if necessary.
- Three of them should include a discussion including:
  - Related engineering fields: list the fields of engineering involved in the design and/or fabrication Body: write 100 – 150 words to describe the engineering or science concepts involved with the object's design, fabrication, or application.
  - Any sources you use should be cited.

**Copyright of Entries:** Each student retains all copyright and equivalent rights to his/her photos, but gives Clemson University nonexclusive rights to use the photos for educational publicity and/or promotional purposes. This includes, but is not limited to, website display, print materials, and exhibits. Clemson University reserves the right to use students' names and photos for educational publicity and/or promotional purposes, including website or exhibition of entries. It is understood that entries may be shared with reporters covering activities within the College of Engineering and Science.



## IRP E: Ethics and Engineering

*For this portion of the IRP, you will reflect on how ethics is incorporated into engineering, and you have 3 options:*

**Option E1:** Complete ICA Question 2-8 from Chapter 2 of the TLAE textbook (see page 55). Choose one of the following parts to answer – you only need to complete ONE of the following, not the entire question! Choose from parts (d), (e), (f), or (g).

or

**Option E2:** Complete one of the following Review Questions from Chapter 4 of the TLAE textbook (see page 109). Choose one of the following questions to answer – you only need to complete ONE of the following, not the entire list! Choose from Review Questions 4-1, 4-2, 4-3 or 4-4.

or

**Option E3:** Complete one of the following Review Questions from Chapter 4 of the TLAE textbook (see page 110). Choose one of the following questions to answer – you only need to complete ONE of the following, not the entire list! Choose from Review Questions 4-5, 4-6, 4-7 or 4-8.

or

**Option E4:** Complete Review Question 14 from Chapter 4 of the TLAE textbook (see page 113). Choose one of the following parts to answer – you only need to complete ONE of the following, not the entire question! Choose from parts (a), (b), (c), (d), (e) or (f).