

# Engineering Fundamentals, Analysis and Design

ENGR 120  
Fall 2009

## Dr. Jenni Light

Office phone: (208) 792-2796  
Cell phone: (509) 254-4330 (8 am – 9 pm)  
Office location: MLH 120A  
E-mail: [jlight@lcmail.lcsc.edu](mailto:jlight@lcmail.lcsc.edu)

Class Schedule: Monday/Wednesday/Friday 9:00-10:30 am MLH B10  
Credit hours: 3  
Required text: Engineering Your Future, Brief Student's Guide, 2006, 2<sup>nd</sup> Ed.  
Oakes, Leone, & Gunn, Great Lakes Press\*  
Prerequisites: a desire to be an engineer

After the course you will:

1. be able to discuss differences in engineering disciplines and what type of work is involved;
2. will be able to work more effectively in teams by:
  - a. compromising and reaching consensus
  - b. practicing different team roles
  - c. contributing to group discussions
  - d. communicating more effectively verbally and on paper;
3. have successful experiences with several design projects;
4. be able to:
  - a. graph and do some data manipulation and calculations using Excel
  - b. use Word to create different templates and equations,
  - c. use Powerpoint to create presentations;
5. improve communications effectively using technical reports, presentations, and online.

Grading: Grades will be based on three research reports (40%), homework and classroom assignments (30%) and participation/professionalism (30%).

Grade percentages are:

|                 |                 |                 |
|-----------------|-----------------|-----------------|
| A $\geq$ 90%    | C+ $\geq$ 76.7% | D+ $\geq$ 66.7% |
| B+ $\geq$ 86.7% | C $\geq$ 73.3%  | D $\geq$ 60%    |
| B $\geq$ 83.3%  | C- $\geq$ 70%   | F < 60%         |
| B- $\geq$ 80%   |                 |                 |

The course schedule will be online ([www.lcsc.edu/jlight](http://www.lcsc.edu/jlight)) and will be updated regularly. Always check the website for upcoming assignments and due dates.

If you need course adaptations or accommodations because of a disability, or if you have important emergency medical information to share with me, please make an appointment

with me as soon as possible. You may also contact the Office of Student Life, Room 211, Reid Centennial Hall.

An incomplete can be granted only if a passing grade has been maintained, 80% of the course work is completed, and there is a documented family or medical emergency

*Email Communication:*

Lewis-Clark State College now recognizes LCMail as an official means of communication with students; you are responsible for monitoring your LCMail account (<http://lcmail.lcsc.edu>).

*Attendance:*

Attendance is not mandatory; however, your participation/professionalism grade will suffer proportionally to your lack of attendance – it becomes rather difficult to participate if you are not in class. However, life does happen so you can miss up to two classes without a penalty in your participation/professionalism grade (assignments are still due on dates shown, you're just excused from in-class activities on that day)

*Academic Dishonesty:*

In the event of academic dishonesty, those involved will receive an "F" grade for the course and the violation of the Student Code of Conduct will be referred to the Director of Student Life for judicial action.

As defined in the LCSC Student Handbook, Academic Dishonesty is:  
(<http://www.lcsc.edu/osl/SHB/SHBcodeofconduct.htm>)

- a) **Cheating**—intentionally using or attempting to use unauthorized materials, information, or study aids in any academic exercise. The term "academic exercise" includes all forms of work submitted for credit hours.
- b) **Fabrication**—intentional and/or unauthorized falsification or invention of any information or the source of any information in an academic exercise.
- c) **Collusion** facilitating academic dishonesty—intentionally or knowingly helping or attempting to help another to commit an act of Academic Dishonesty.
- d) **Plagiarism**—the deliberate adoption or reproduction of ideas or words or statement of another person as one's own without acknowledgment.

**What does this mean?**

- a) *Cheating* - don't hide answers in your phone or ipod or look at your neighbor's test
- b) *Fabrication* - don't make stuff up and pretend it's factual
- c) *Collusion* - don't help anyone else cheat, steal, or lie
- d) *Plagiarism* - don't use someone else's work and say it is yours

*\* A copy of the text is on reserve at the library with a 3-hr checkout limit. You are not required to purchase the text, however, homework and reading will be assigned from the book so you will need access to this textbook.*