Engineering Leadership
& Innovation Institute at UCF

Minor & Certificate FAQs

Spring 2018

What is the Engineering Leadership Minor/Certificate?

The minor and certificate provide a launching pad for a student's multiple career paths. The minor and certificate is a tangible way to demonstrate your commitment to excellence. When you complete the minor or certificate this will be on your official UCF transcript. Potential employers will see you have invested in yourself to be the best you can be.

Why does CECS have the Engineering Leadership Minor/Certificate?

CECS has the Engineering Leadership Minor/Certificate because CECS's largest employers asked for
- Increased leadership and professional skills in our graduates
- An ability to determine who has these skills
  - o Upon successful completion of the minor or certificate, this accomplishment will be added to the student's official transcript.

How will the Engineering Leadership Minor/Certificate enhance my skills?

The Engineering Leadership Minor/Certificate will enhance your skills be giving your further knowledge and confidence to be
- Technically Sound: to create technical solutions to challenges
- Creative: to generate creative ideas and new concepts
- Innovative: to bring the creative ideas to life, to convert the idea/concept to a working product or system that is used
- Collaborative: to work professionally with others
- Accountable: to meet commitments in a project-based environment.

How will the Engineering Leadership Minor/Certificate prepare me for multiple career paths?

With these additional skills, you will increase your career options. Given below are examples of the multiple careers you can pursue.

Define	Design	Build	Deliver
• Technical Sales Engineers • Applications Engineers • Systems Engineers	• Design Engineers • Software Engineers • System Engineers	• Manufacturing Engineers • Product Engineers • Quality Engineers	• Applications Engineers • Quality Engineers • Product Engineers • Technical Sales Engineers • Finance & Operations

(See http://careers.ti.com/content/new-college-graduate for more information and example of what these mean.)

How does the Engineering Leadership Minor/Certificate fit within my academic career?

To fit with your academic career we have offered two options:
- The Engineering Leadership Minor
- The Engineering Leadership Certificate.

What are the Minor/Certificate courses?

The courses below are for UCF Catalog years **prior to Summer 2018**

Focus Area	Courses	
Required Courses	**MINOR** • Discipline specific design course in Engineering or Computer Science • LDR 2001 Foundations of Leadership (2 hrs) • LDR 2002 Intermediate Foundations of Leadership (2 hrs) • EGS 3030 Leadership in Engineering I (0 hrs) • EGS 3031 Leadership in Engineering II (0hrs) • MAN 3025 Management of Organizations (3 hrs) • PHI 3638 Ethical Issues in the 21st Century (3 hrs) OR PHI 3626 Advanced Ethics in Science and Technology (3 hrs) • EGS 4950 Engineering Leadership Capstone (3 hrs)	**CERTIFICATE** • Discipline specific design course in Engineering or Computer Science • EGS 3030 Leadership in Engineering I (0 hrs) • EGS 3031 Leadership in Engineering II (0hrs) • EGS 4950 Engineering Leadership Capstone (3 hrs)
Electives	**Pick One** • MAR 3391 Professional Selling (3 hrs) • ENT 4183 Technological Entrepreneurship (3 hrs) OR EGN 4641C Engineering Entrepreneurship (3 hrs)	**Pick Two** • EGS 4624 Engineering Innovation and Leadership (3 hrs) • ENT 4183 Technological Entrepreneurship (3 hrs) OR EGN 4641C Engineering Entrepreneurship (3 hrs) • MAR 3391 Professional Selling (3 hrs)

The courses below are for UCF Catalog years **starting Summer 2018**

Focus Area	Courses	
Required Courses	**MINOR** • Discipline specific design course in Engineering or Computer Science • LDR 2001 Foundations of Leadership (2 hrs) • LDR 2002 Intermediate Foundations of Leadership (2 hrs) • EGS 3030 Leadership in Engineering I (0 hrs) • EGS 3031 Leadership in Engineering II (0hrs) • PHI 3638 Ethical Issues in the 21st Century (3 hrs) OR PHI 3626 Advanced Ethics in Science and Technology (3 hrs) • EGS 4950 Engineering Leadership Capstone (3 hrs)	**CERTIFICATE** • Discipline specific design course in Engineering or Computer Science • EGS 3030 Leadership in Engineering I (0 hrs) • EGS 3031 Leadership in Engineering II (0hrs) • EGS 4950 Engineering Leadership Capstone (3 hrs)
Electives Minor: Pick 3 Certificate: Pick 2	• MAR 3391 Professional Selling (3 hrs) • MAN 3025 Management of Organizations (3 hrs) • ENT 4183 Technological Entrepreneurship (3 hrs) OR EGN 4641C Engineering Entrepreneurship (3 hrs) • EGS 4624 Engineering Innovation and Leadership (3 hrs) • PHI 3638 Ethical Issues in the 21st Century (3 hrs) OR PHI 3626 Advanced Ethics in Science and Technology (3 hrs)	

How do I sign up for the Engineering Leadership Minor/Certificate?

To signup for the Engineering Leadership Minor/Certificate you can take the following steps:

1) Double check the catalog year
   o Students will need to work from the 2014-2015 catalogue or newer
   o If you are operating under a catalogue before 2014-2015 you'll need to double check with your undergraduate advisor for potential changes to your program of study by joining the minor or certificate
2) Double check you are officially declared as an engineering or computer science student
   o You must be declared engineering or computer science student (successful completion of Calc I & II, Physics I and an acceptable Chemistry)
3) Sign up online
   o My.ucf.edu
   o Change Major: request
   o Add minor/certificate
4) Questions please contact Kate Hurt at kate.hurt@ucf.edu

How can I complete the program in a timely manner?

You can complete each program in a timely manner. An example of how to complete the courses in a timely manner is given below.

	Sophomore	Junior	Senior
Engineering Leadership Minor	• LDR 2001 Foundations of Leadership • LDR 2002 Intermediate Foundations of Leadership • MAN 3025 Management of Organizations (3hrs) • PHI 3638 Ethical Issues in the 21Century (3hrs)) OR PHI 3626 Advanced Ethics in Science and Technology	• EGS 3030 Leadership in Engineering I • EGS 3031 Leadership in Engineering II • MAR 3391-Professional Selling course OR ENT 4183 Technological Entrepreneurship OR EGN 4641C Engineering Entrepreneurship	• Discipline specific design course or discipline specific senior design course • EGS 4950 Engineering Leadership Capstone
Engineering Leadership Certificate		• EGS 3030 Leadership in Engineering I • EGS 3031 Leadership in Engineering II • EGS 4624 Engineering Administration and Leadership • ENT 4183 Technological Entrepreneurship OR EGN 4641C Engineering Entrepreneurship	• Discipline specific design course or discipline specific senior design course • EGS 4950 Engineering Leadership Capstone

What courses can I use as technical electives?

Some of the disciplines support the use of the minor or certificate courses as technical electives. The current use of technical electives is given below. Note the use of courses as technical electives may change. Please verify with your undergraduate coordinator in your home department

Dept	Program	Courses Eligible as a Technical Elective
CECE	Civil	• None
	Environmental	• EGS 4624 Engineering Innovation and Leadership in the Engineering Environment • EGS 4950 Engineering Leadership Capstone
	Construction	• EGS 4624 Engineering Innovation and Leadership in the Engineering Environment • EGS 4950 Engineering Leadership Capstone
EE	EE	• None
	CpE	• None
	Photonics	• None
CS	Computer Science	• None
	Information Technology	• None
IEMS	IE	• MAR 3391-Professional Selling • ENT 4183 Technological Entrepreneurship <u>OR</u> EGN 4641C Engineering Entrepreneurship • EGS 4624 Engineering Innovation and Leadership in the Engineering Environment (Required as part of the UG IE major)
MAE	ME	• EGS 4624 Engineering Innovation and Leadership in the Engineering Environment
	Aero	• EGS 4624 Engineering Innovation and Leadership in the Engineering Environment

How to sign up for courses?

Courses	Must Have Completed Before Can Sign Up	How to Sign Up
LDR 2001 Foundations of Leadership (2 hrs) **LDR 2002 Intermediate Foundations of Leadership (2 hrs)**	Must complete LDR 2001 before LDR 2002	• Sign up for the class after the Engineering Leadership Minor or Certificate is added to the student's plan of study. • Course designated for ENG students is the online section.
MAR 3391 Professional Selling (3 hrs)		• Need an override from the marketing department. • Contact: Renee Skivers (renee.skivers@ucf.edu) with your PID.
ENT 4183 Technological Entrepreneurship		• Sign up directly.
MAN 3025 Management of Organizations (3 hrs)		• Need an override from the management department. • Contact: Lynn Becker (lynn.becker@ucf.edu).
PHI 3638 Ethical Issues in the 21st Century (3 hrs) **PHI 3626 Advanced Ethics in Science and Technology (3 hrs)**		• Contact: Dr. Donald Jones (donjones@ucf.edu).

Who do I contact if I still have questions?

Contact Kate Hurt, Assistant Director Undergraduate Program
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