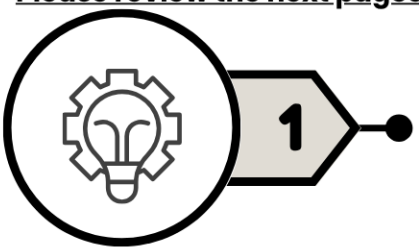
ASRE PATHWAY OF DISTINCTION IN ELECTRICAL & COMPUTER ENGINEERING

This is a general idea of the steps to complete an ASRE Pathway. The goal of this program is for students to begin during their freshman year and complete requirements throughout their college career. There is flexibility in the timeframe, but all requirements must be complete prior to graduation.

Please review the next pages for superscript notes with further information.



INITIATION

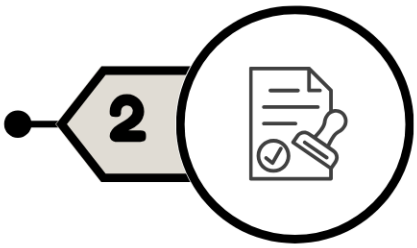
Begin by completing:

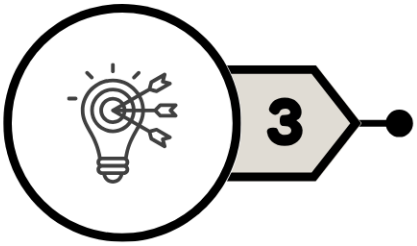
- UNIV 100 "First Year Seminar"

BUILDING SKILLS

Build skills through:

- EECE 340 "Microprocessors"
- EECE 260 "Computational Methods in Electrical Engineering"





MASTERING SKILLS

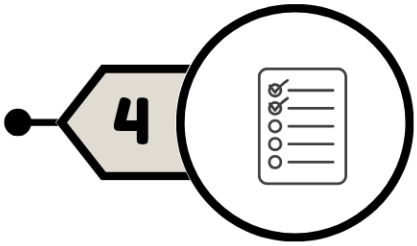
Master skills through:

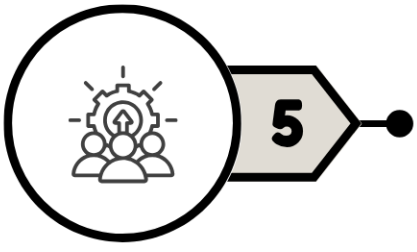
- ENGR 220 "Fundamentals of Engineering Innovation"
- EECE 447 "Electrical Machines & Power"
- EECE 460 "Design Lab II"

PROFESSIONAL DEVELOPMENT

Develop professionally through:

- The professional development experience: either participate in a departmental, university, regional, national, or international competition[2] OR complete an REU[3] OR complete an R&D COOP/Internship[5]





DISSEMINATION

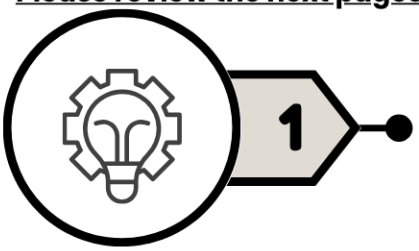
Disseminate through:

- EECE 423 "Seminar I"
- Presentation at a departmental, university, regional, national, or international conference[6]

ASRE PATHWAY OF EXCELLENCE IN ELECTRICAL & COMPUTER ENGINEERING

This is a general idea of the steps to complete an ASRE Pathway. The goal of this program is for students to begin during their freshman year and complete requirements throughout their college career. There is flexibility in the timeframe, but all requirements must be complete prior to graduation.

Please review the next pages for superscript notes with further information.



INITIATION

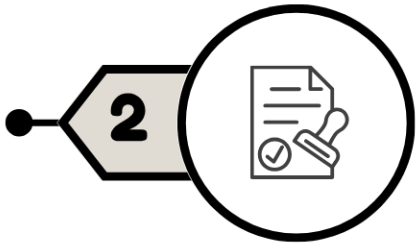
Begin by completing:

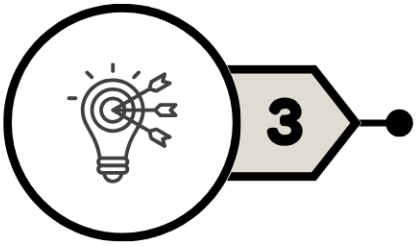
- UNIV 100 "First Year Seminar"

BUILDING SKILLS

Build skills through:

- EECE 340 "Microprocessors"
- EECE 260 "Computational Methods in Electrical Engineering"
- One (1) research related workshop[1]





MASTERING SKILLS

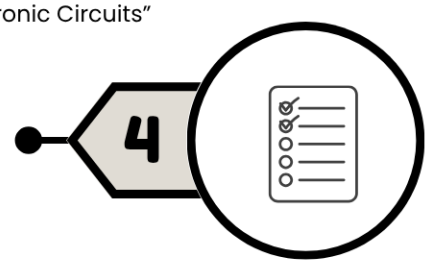
Master skills through:

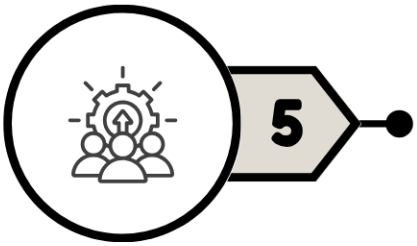
- ENGR 220 "Fundamentals of Engineering Innovation"
- EECE 447 "Electrical Machines & Power"
- EECE 443 "Design Lab I"
- EECE 460 "Design Lab II"
- EECE 353 "Electronic Circuits"

PROFESSIONAL DEVELOPMENT

Develop professionally through:

- The professional development experience: either participate in a departmental, university, regional, national, or international competition[2] OR complete an REU[3] OR mentored research[4] OR complete an R&D COOP/Internship[5]





DISSEMINATION

Disseminate through:

- EECE 423 "Seminar I"
- Presentation at a departmental, university, regional, national, or international conference[6]
- The dissemination experience: either author or co-author a publication submission OR presentation at a regional, national, or international conference[7]

Electrical & Computer Engineering ADVANCE SRE Pathways

STUDENT VIEW

See the next page for superscript notes with more information.

Advance SRE Pathway of **Distinction** Curricular and Co-curricular* Events Required	Advance SRE Pathway of **Excellence** Curricular and Co-curricular* Events Required
Curricular 1. UNIV 100 2. EECE 340 3. EECE 260 4. ENGR 220 5. EECE 447 6. EECE 460 7. EECE 423 **Co-curricular** 8. Professional Development Competition[2] **OR** REU[3] **OR** R&D COOP/Internship[5] 9. Presentation at a departmental, university, regional, national, or international conference[6]	**Curricular** 1. UNIV 100 2. EECE 340 3. EECE 260 4. ENGR 220 5. EECE 447 6. EECE 443 7. EECE 460 8. EECE 353 9. EECE 423 **Co-curricular** 10. One (1) approved workshops[1] 11. Professional Development Competition[2] **OR** REU[3] **OR** Mentored Research[4] **OR** R&D Internship/COOP[5] 12. Presentation at a departmental, university, regional, national, or international conference[6] 13. Dissemination Peer reviewed publication submission (author or co-author) **OR** Presentation at regional, national, or international conference[7]

Electrical & Computer Engineering ADVANCE SRE Pathways
Superscript Notes:

* ASRE-approved courses only. Students who have earned credits for a course that is not ASRE approved may petition to substitute that course with a 300 or 400 level course identified as providing research skill. The SCRCS Advance office will review the petition for approval. Approved substitutions are only for the purpose of completing an Advance Pathway and are not approved as substitution for the degree.

[1]Approved workshops can include, but are not limited to SCRCS, library, or university workshops. SCRCS Advance Workshops can be found on the UL Lafayette SCRCS website. 1 in person SCRCS workshop is equivalent to 2 virtual SCRCS workshops. Other workshops focused on research skills are possible by approval from the Electrical & Computer Engineering department.

[2]Participation in competition required. Departmental, university, regional, national, or international competitions will count. Examples: IEEE, LES, E&T week

[3]REU is a 10-week research intensive experience for undergraduates sponsored by the National Science Foundation.

[4]Student should be involved in 1 year of mentored research at UL Lafayette. Mentored research includes, but is not limited to, volunteer, scholarship, paid from faculty grants, MUREs (mentored undergraduate research experience), or SUREs (summer undergraduate research experience).

[5]COOP or internship must be external to UL Lafayette.

[6]Presentation may be poster or oral presentation.

[7]Presentation may be poster or oral presentation. Must be different conference presentation from requirement 12.