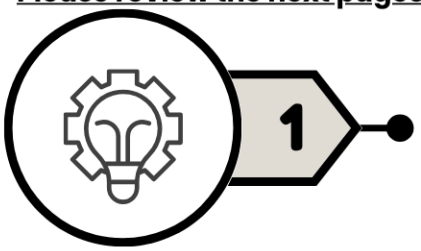
ASRE PATHWAY OF DISTINCTION IN CHEMICAL ENGINEERING

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

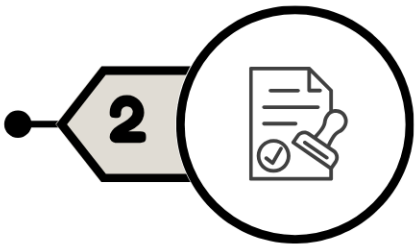
Begin by completing:

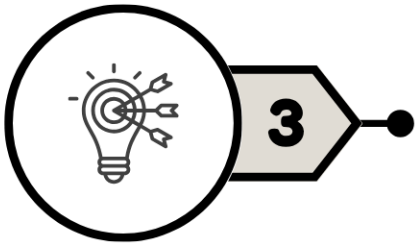
- UNIV 100 "First Year Seminar"
- CHEE 101 "Intro to CHEE"

BUILDING SKILLS

Build skills through:

- CHEM 115 "Inorganic Chem Lab"
- CHEM 233 "Organic Chem Lab I"





MASTERING SKILLS

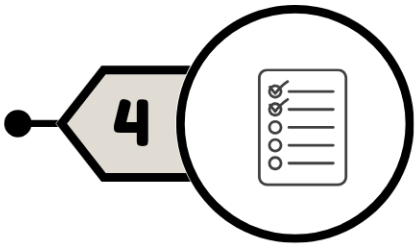
Master skills through:

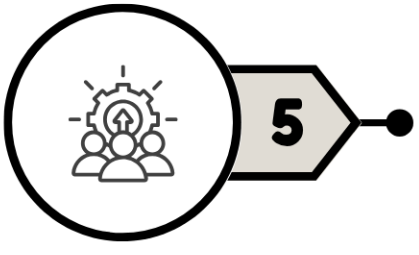
- CHEE 403 "Unit Operations Laboratory I"
- CHEE 404 "Unit Operations Laboratory II"
- CHEE 413 "Process Control"

PROFESSIONAL DEVELOPMENT

Develop professionally through:

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





DISSEMINATION

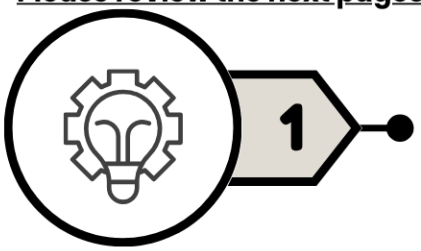
Disseminate through:

- CHEE 408 "Computer Aided Process Design"
- Presentation at a departmental, university, regional, national, or international conference[6]

ASRE PATHWAY OF EXCELLENCE IN CHEMICAL 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

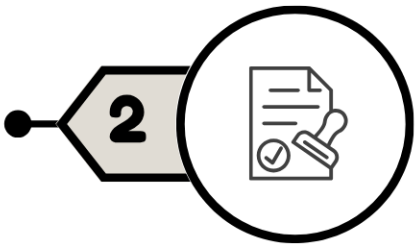
Begin by completing:

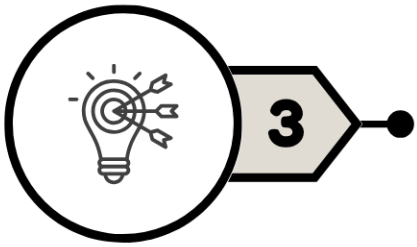
- UNIV 100 "First Year Seminar"
- CHEE 101 "Intro to CHEE"

BUILDING SKILLS

Build skills through:

- CHEM 115 "Inorganic Chem Lab"
- CHEM 233 "Organic Chem Lab I"
- One (1) research related workshop[1]





MASTERING SKILLS

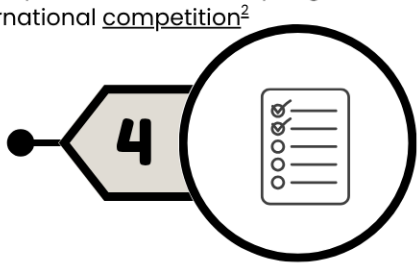
Master skills through:

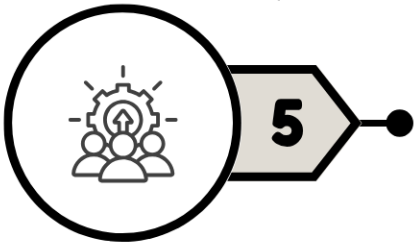
- CHEE 403 "Unit Operations Laboratory I"
- CHEE 404 "Unit Operations Laboratory II"
- CHEE 413 "Process Control"
- Participate in a departmental, university, regional, national, or international competition[2]

PROFESSIONAL DEVELOPMENT

Develop professionally through:

- The professional development experience: either passing CHEE 411 or CHEE 412 (minimum 3 credits) OR complete a 1-year mentored research experience[4] OR complete an REU[3] OR complete an R&D COOP/Internship[5]





DISSEMINATION

Disseminate through:

- CHEE 408 "Computer Aided Process Design"
- Presentation at a departmental, university, regional, national, or international conference[6]
- The dissemination experience: either complete an honors thesis OR author or co-author a publication submission OR a presentation at a regional, national, or international conference[7]

Chemical 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. CHEE 101 3. CHEM 115 4. CHEM 233 5. CHEE 403 6. CHEE 404 7. CHEE 413 8. CHEE 408	**Curricular** 1. UNIV 100 2. CHEE 101 3. CHEM 115 4. CHEM 233 5. CHEE 403 6. CHEE 404 7. CHEE 413 8. CHEE 408
Co-Curricular 9. Professional Development Competition (Professional Organization Activity)[2] **OR** REU[3] **OR** R&D COOP/Internship[5] 10. Presentation at departmental, university, regional, national, or international conference[6]	**Co-Curricular** 9. One (1) approved workshop[1] 10. Competition (Professional Organization Activity)[2] 11. Professional Development CHEE 411 or 412 – (minimum 3 credits) **OR** 1-year mentored research experience[4] **OR** REU[3] **OR** R&D COOP/Internship[5] 12. Presentation at departmental, university, regional, national, or international conference[6] 13. Dissemination Honors Thesis **OR** Peer reviewed publication submission (author or co-author) **OR** Presentation at regional, national, or international conference.[7]

Chemical 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 course CHEE 300 or 400 level course identified by the Chemical Engineering department. 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 Chemical Engineering department.

[2] Participation in competition required. Departmental, university, regional, national, or international competitions will count. Examples: AIChE (the American Institute of Chemical Engineers), VerTech

[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.