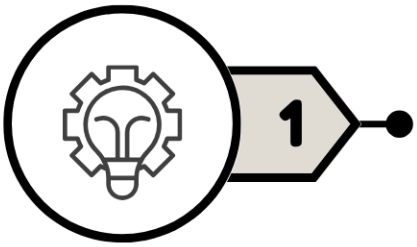
ASRE PATHWAY OF DISTINCTION IN PHYSICS

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

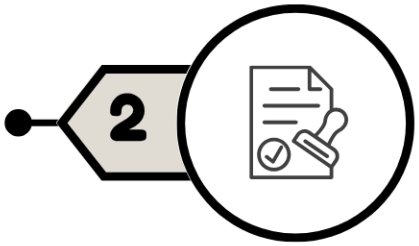
Begin by completing:

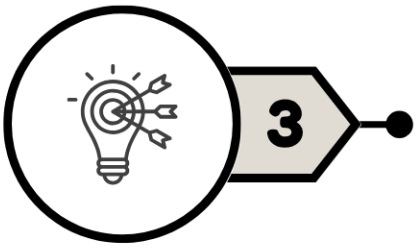
- UNIV 100 "First Year Seminar"
- PHYS 191 "Seminar I" AND PHYS 192 "Seminar II"

BUILDING SKILLS

Build skills through:

- PHYS 291 "Seminar I" AND PHYS 292 "Seminar II"
- PHYS 391 "Seminar I" AND PHYS 392 "Seminar II"
- Two (2) research related workshops[1]





MASTERING SKILLS

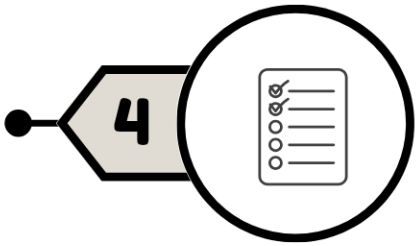
Master skills through:

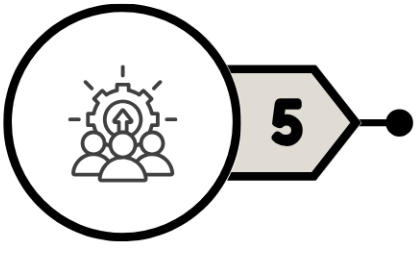
- PHYS 497 "Senior Research I"
- PHYS 498 "Senior Research II"
- PHYS 461 "Directed Individual Study I"

PROFESSIONAL DEVELOPMENT

Develop professionally through:

- The professional development experience: either mentored research[2] OR complete an internship[4] OR complete professional training[5] OR complete an REU[6]





DISSEMINATION

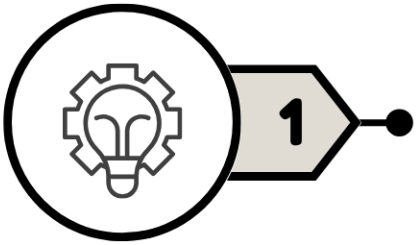
Disseminate through:

- PHYS 491 "Seminar I"
- PHYS 492 "Seminar II"
- Presentation at a university or regional conference

ASRE PATHWAY OF EXCELLENCE IN PHYSICS

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

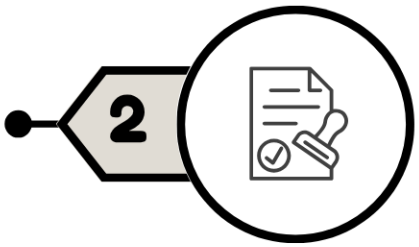
Begin by completing:

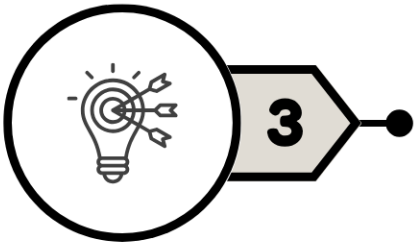
- UNIV 100 "First Year Seminar"
- PHYS 191 "Seminar I" AND PHYS 192 "Seminar II"

BUILDING SKILLS

Build skills through:

- PHYS 291 "Seminar I" AND PHYS 292 "Seminar II"
- PHYS 391 "Seminar I" AND PHYS 392 "Seminar II"
- Three (3) research related workshops[1]





MASTERING SKILLS

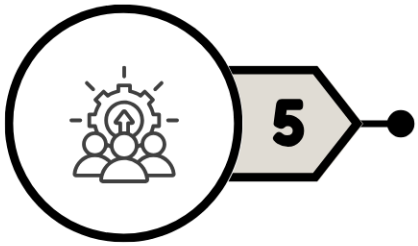
Master skills through:

- PHYS 497 "Senior Research I"
- PHYS 498 "Senior Research II"
- PHYS 461 "Directed Individual Study I"
- Leadership Experience[3]

PROFESSIONAL DEVELOPMENT

Develop professionally through:

- PHYS 462 "Directed Individual Study II"
- The professional development experience: either mentored research[2] AND complete an internship[4] AND complete professional training[5] OR complete an REU[6]



DISSEMINATION

Disseminate through:

- PHYS 491 "Seminar I"
- PHYS 492 "Seminar II"
- The dissemination experience: either a presentation at a national, or international conference OR complete an honors thesis OR co-author a publication submission[7]

Physics 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. PHYS 191 **AND** 192 3. PHYS 291 **AND** 292 4. PHYS 391 **AND** 392 5. PHYS 497 6. PHYS 498 7. PHYS 461 8. PHYS 491 9. PHYS 492 **Co-curricular** 10. Two (2) approved workshops[1] 11. Professional Development Mentored Research[2] **OR** Internship[4] **OR** Professional training[5] **OR** REU[6] 12. Presentation at a university or regional conference	**Curricular** 1. UNIV 100 2. PHYS 191 **AND** 192 3. PHYS 291 **AND** 292 4. PHYS 391 **AND** 392 5. PHYS 497 6. PHYS 498 7. PHYS 461 8. PHYS 462 9. PHYS 491 10. PHYS 492 **Co-curricular** 11. Three (3) approved workshops[1] 12. Leadership Experience[3] 13. Professional Development Mentored Research[2] **AND** Internship[4] **AND** Professional training[5] **OR** REU[6] 14. Dissemination Presentation at a national or international conference **OR** Honors thesis **OR** Publication submission[7]

Physics 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 Physics department.

[2]Mentored research includes but is not limited to, volunteer, scholarship, paid from grants, MUREs (mentored undergraduate research experience), or SUREs (summer undergraduate research experience). Mentored research will **NOT** include PHYS 461, PHYS 462, PHYS 497, or PHYS 498.

[3]Leadership experience includes, but are not limited to, departmental service events (such as Science Day, outreach activities), student's officership in professional organizations or societies (such as SPS), SGA officership, student tutor/mentor.

[4]Internships may be internal or external to UL Lafayette.

[5]Professional training could include 2-week summer schools or university/research laboratory visits to master use of scientific instrument or computational model.

[6]REU is a 10-week research intensive experience for undergraduates sponsored by the National Science Foundation or other Federal agencies/laboratories.

[7]Must be co-author