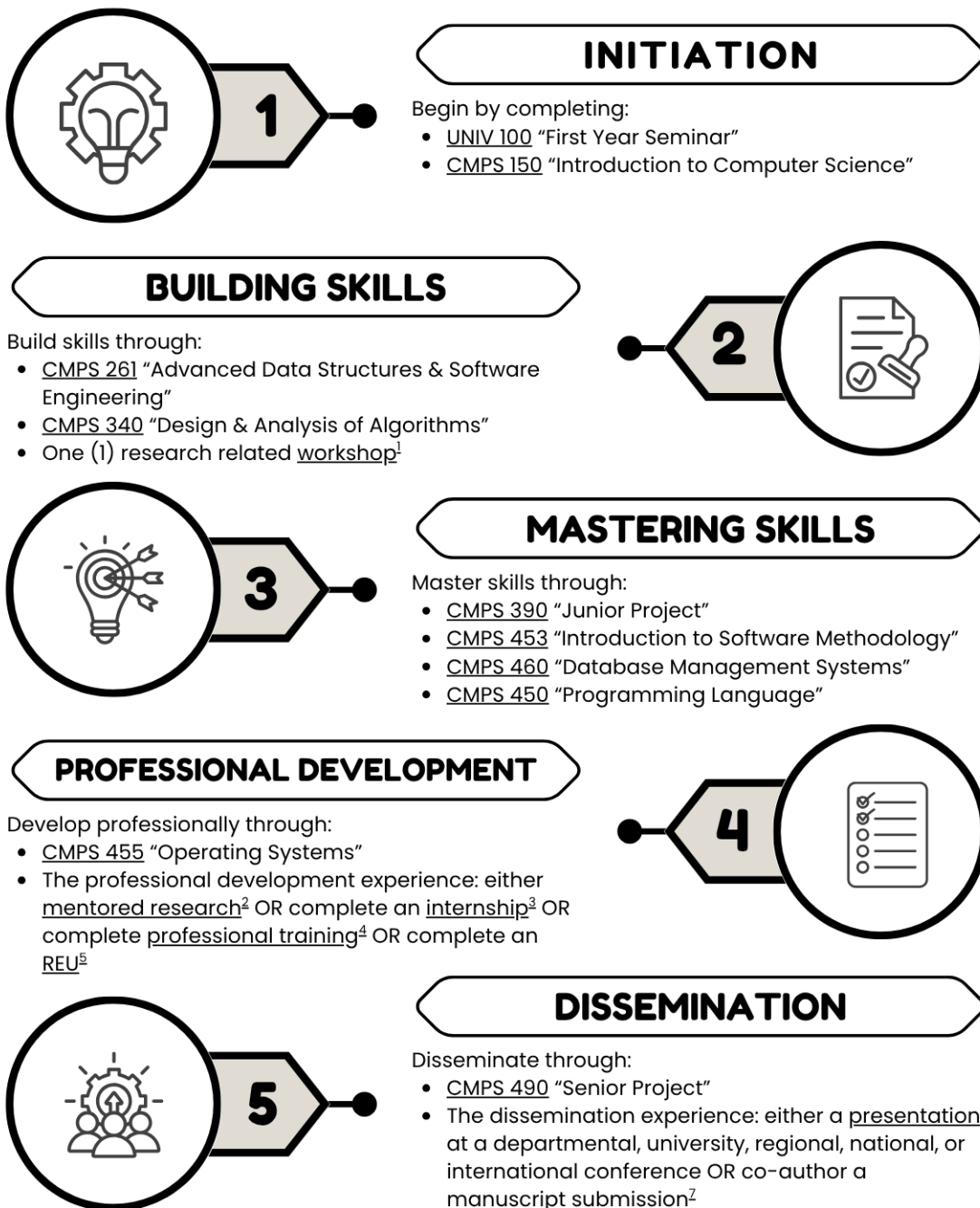


# ASRE PATHWAY OF DISTINCTION IN COMPUTER SCIENCE

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.

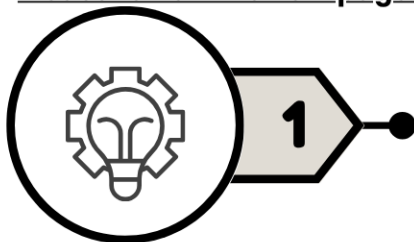
**Please review the next pages for superscript notes with further information.**



# ASRE PATHWAY OF EXCELLENCE IN COMPUTER SCIENCE

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.**



1

## INITIATION

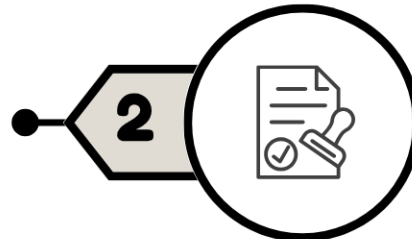
Begin by completing:

- [UNIV 100](#) "First Year Seminar"
- [CMPS 150](#) "Introduction to Computer Science"

## BUILDING SKILLS

Build skills through:

- [CMPS 261](#) "Advanced Data Structures & Software Engineering"
- [CMPS 340](#) "Design & Analysis of Algorithms"
- Two (2) research related [workshops](#)<sup>1</sup>

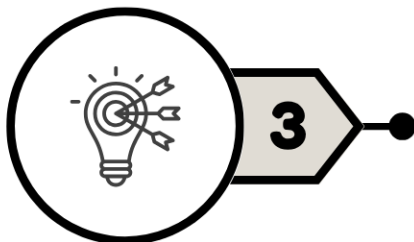


2

## MASTERING SKILLS

Master skills through:

- [CMPS 390](#) "Junior Project"
- [CMPS 453](#) "Introduction to Software Methodology"
- [CMPS 460](#) "Database Management Systems"
- [CMPS 450](#) "Programming Language"
- [Leadership Experience](#)<sup>6</sup>

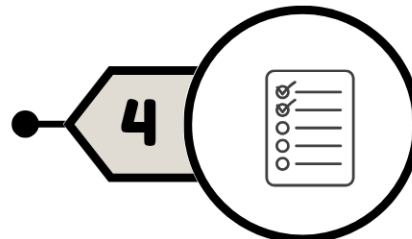


3

## PROFESSIONAL DEVELOPMENT

Develop professionally through:

- [CMPS 455](#) "Operating Systems"
- The professional development experience: either [mentored research](#)<sup>2</sup> OR complete an [internship](#)<sup>3</sup> OR complete [professional training](#)<sup>4</sup> OR complete an [REU](#)<sup>5</sup>

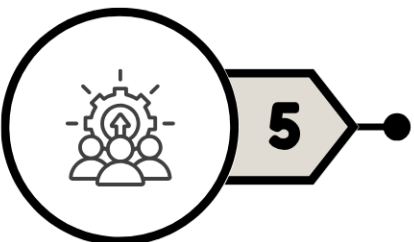


4

## DISSEMINATION

Disseminate through:

- [CMPS 490](#) "Senior Project"
- The dissemination experience: either a [presentation](#) at a regional, national, or international conference OR co-author a [manuscript submission](#)<sup>7</sup> OR complete an [honors thesis](#)



5

STUDENT VIEW

See the next page for superscript notes with more information.

Advance SRE Pathway of <b><u>Distinction</u></b> Curricular and Co-curricular* Events Required	Advance SRE Pathway of <b><u>Excellence</u></b> Curricular and Co-curricular* Events Required
<p><b>Curricular</b></p> <ol style="list-style-type: none"> <li>1. UNIV 100</li> <li>2. CMPS 150</li> <li>3. CMPS 261</li> <li>4. CMPS 340</li> <li>5. CMPS 390</li> <li>6. CMPS 453</li> <li>7. CMPS 460</li> <li>8. CMPS 450</li> <li>9. CMPS 455</li> <li>10. CMPS 490</li> </ol> <p><b>Co-curricular</b></p> <ol style="list-style-type: none"> <li>11. One (1) approved <u>workshop</u><sup>1</sup></li> <li>12. <u>Professional Development</u> Mentored research<sup>2</sup> <b>OR</b> Internship<sup>3</sup> <b>OR</b> Professional training<sup>4</sup> <b>OR</b> REU<sup>5</sup></li> <li>13. <u>Dissemination</u> Presentation at a departmental, university, regional, national, or international conference <b>OR</b> Peer-reviewed manuscript submission<sup>7</sup></li> </ol>	<p><b>Curricular</b></p> <ol style="list-style-type: none"> <li>1. UNIV 100</li> <li>2. CMPS 150</li> <li>3. CMPS 261</li> <li>4. CMPS 340</li> <li>5. CMPS 390</li> <li>6. CMPS 453</li> <li>7. CMPS 460</li> <li>8. CMPS 450</li> <li>9. CMPS 455</li> <li>10. CMPS 490</li> </ol> <p><b>Co-curricular</b></p> <ol style="list-style-type: none"> <li>11. Two (2) approved <u>workshops</u><sup>1</sup></li> <li>12. <u>Professional Development</u> Mentored Research<sup>2</sup> <b>OR</b> Internship<sup>3</sup> <b>OR</b> Professional training<sup>4</sup> <b>OR</b> REU<sup>5</sup></li> <li>13. <u>Leadership Experience</u><sup>6</sup></li> <li>14. <u>Dissemination</u> Presentation at a departmental, university, regional, national, or international conference <b>OR</b> Peer-reviewed manuscript submission<sup>7</sup> <b>OR</b> Honors thesis</li> </ol>

## Computer Science 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.

<sup>1</sup>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 School of Computing and Informatics.

<sup>2</sup>Mentored research includes but is not limited to volunteer, scholarship, paid from faculty grants, MUREs (mentored undergraduate research experience), SUREs (summer undergraduate research experience).

<sup>3</sup>Internship could be internal or external to UL Lafayette. The interns are encouraged to complete CMPS 497 or CMPS 498.

<sup>4</sup>Professional training could include 2-week summer schools or research laboratory visits.

<sup>5</sup>REU is a 10-week research intensive experience for undergraduates sponsored by the National Science Foundation or other Federal agencies/laboratories.

<sup>6</sup>Leadership experience includes but is not limited to departmental service events, officership in departmental club, or student tutor/mentorship.

<sup>7</sup>Must be co-authored. A faculty mentor can petition for an exception to this requirement, for instance, if a manuscript is in preparation. The School of Computing and Informatics faculty will evaluate these requests.