



Louisiana Tech College of Engineering & Science Grand Challenge Scholars Program

Congratulations! You are now a Grand Challenge Scholar Apprentice!

This **guide** outlines what you need to do next.

- 1) COMPLETE AND SUBMIT A CURRICULAR PLAN. Be sure to discuss this with your Faculty Mentor. Carefully review it to make sure you meet each of the criteria.
- 2) BUILD IN CURRICULAR CONNECTIVITY. You must document how your GC Curricular Plan demonstrates intellectual and thematic connectivity across the five curricular components and a Grand Challenge theme or problem.
- 3) MAINTAIN a 3.2 GPA on all attempts of all courses to stay in the program.
- 4) MEET ONCE A QUARTER WITH YOUR GC FACULTY MENTOR to review your progress and Curricular Plan.
- 5) SUBMIT YOUR ANNUAL PROGRESS REPORT to your GC Faculty Mentor and the GCSP Director by May 1 each year, outlining your accomplishments for the past academic year and a detailed plan for the upcoming academic year.
- 6) UPON COMPLETION OF YOUR CURRICULAR PLAN (and no later than the first day of classes of your final quarter):
 - a. submit a final report to the GC Oversight Committee through your GC Faculty Mentor verifying the completion of your Plan;
 - b. have your GC Faculty Mentor write a letter of recommendation to the GC Oversight Committee verifying that you have satisfactorily completed the program requirements;
 - c. schedule a capstone presentation (to take place no later than the third week of your final quarter) to present and share information about your scholarship and project experiences (to be attended by the Oversight Committee, Faculty Mentor, other GC Scholar Apprentices, and others).
- 7) UPON SUCCESSFUL COMPETITION OF THE PROGRAM you will be designated a Louisiana Tech University College of Engineering and Science Grand Challenge Scholar upon graduation and receive similar recognition from the National Academy of Engineering.

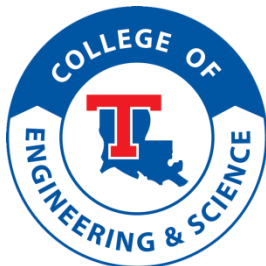
Want more Info on the **Louisiana Tech College of Engineering and Science GSCP?**

Check out the website at:

<http://www.latech.edu/coes/gcscholars>

or contact:

Dr. Jenna Carpenter, Director, Grand Challenge Scholar Program, at: jenna@latech.edu



Summary of 5 GC Curricular Component Options and Requirements

COMPONENTS	REQUIREMENTS	
Research Experience	Senior capstone research or design team or individual project and course(s)* related to a GC theme or problem	
Interdisciplinary Curriculum	ENGR 120,121,122 MATH 240, 241, 242 CHEM 100, 101 and PHYS 201*	and
	or	<u>One of the following courses*</u> : <ul style="list-style-type: none"> • BISC 470 (Medical Ethics) • BLAW 255 (Legal Environment of Business) • HNRS 110 (Foundations of Sociological Thought) • HNRS 114 (Foundations of Behavioral Thought) • HNRS 212 (Foundations of American Political Thought) • POLS 350 (International Relations)
All ISC MATH, CHEM, BISC, PHYS courses* required by science curriculum		
Entrepreneurship	GC-related project in the Top Dawg Business Plan Competition	or <u>Both of the following courses*</u> : <ol style="list-style-type: none"> 1) ENTR 430 (Innovative Product Design); <li style="text-align: center;">and 2) ENTR 460 (Innovative Venture Research)
Global Dimension	Louisiana Tech University Study Abroad Program	
	or	
	Approved International Study Program	
	or	
	Internship with significant global focus	
	or	
GEOG 205 (Cultural Geography)* and one of the following courses*: <ul style="list-style-type: none"> • HIST 406 (Modern Eastern Europe) • HIST 441 (History of Latin America since 1824) • HIST 436 (History of the Modern Near East) • POLS 460 (Politics of Developing Nations) • POLS 465 (Asian Politics) • GEOG 470 (Urban Geography) • POLS 302 (Comparative Foreign Governments) • POLS 350 (International Relations) • POLS 355 (American Foreign Policy) • SOC 360 (Sociology of Terrorism and Social Movements) 		
Each option under <u>Global Dimension</u> must submit a justification of how the proposed option will help cultivate an enhanced global awareness in the chosen field.		
Service Learning	One or more years as a Supplemental Instruction Tutor	
	or	
	One or more years as a BARC Tutor	
	or	
Sustained contribution for one or more years to Engineers Without Borders project(s) or LTESA service project(s) or equivalent approved experience		

*** All course(s) must be completed with a grade of "B" or higher**