NEBRASKA ENGINEERING

GCSP PROPOSAL

The purpose of the proposal process is for you to craft an initial structure for your Grand Challenge Scholar Program (GCSP) experience. You will receive feedback on what you propose: your choices will either be accepted or returned for revisions.

Upon approval, you are free to pursue the options for which you receive approval. The GCSP proposal is flexible and may be changed as you progress through the program. If you decide to change a component option in any way after you were approved, you must complete a *Component Approval Form* (C.A.F.) to request and receive approval for changes.

Instructions:

- Complete ALL sections of this form. Please read instructions carefully and answer all questions thoroughly to avoid needing revisions.
- Submit proposal via Canvas in Grand Challenge Scholars Program course

Complete the following information:

STUDENT NAME:

MAJOR:

NUID#:

Select the primary Grand Challenge you plan to pursue:

☐ Make Solar Energy Economical

☐ Provide Energy from Fusion

☐ Develop Carbon Sequestration Methods

☐ Manage the Nitrogen Cycle

☐ Provide Access to Clean Water

☐ Restore and Improve Urban Infrastructure

☐ Advance Health Informatics

☐ Engineer Better Medicines

☐ Reverse-Engineer the Brain

☐ Prevent Nuclear Terror

☐ Secure Cyberspace

☐ Enhance Virtual Reality

☐ Advance Personalized Learning

☐ Engineer the Tools of Scientific Discovery

Please complete ALL sections below as thoroughly as possible:

Component #1	**Options (select ONE)** *note name/title of activity*	**Est. Complete Date:**
Talent Competency	☐ A. Undergraduate research _____ ☐ B. Internship/Co-op _____ ☐ C. Thesis _____ ☐ D. Other/Special Topics _____	Semester/Term: _____ Academic Year: _____

Please provide further detail on how you plan to complete this component. Answer the following questions in your response: *(a) How will this activity/course enhance your understanding of your Grand Challenge, (b) What is the expected time commitment you will spend on this activity/course, and (c) Why do you believe this activity/course is relevant to your Grand Challenge?*

Component #2	Options (select TWO) *note name/title of activity*	Est. Complete Date:
Multidisciplinary Competency	☐ A. Professional Conferences/Meetings _____ ☐ B. Interdisciplinary Academic Minor _____ ☐ C. Approved Non-Engineering Course _____ ☐ D. Other/Special Topics _____	Semester/Term: _____ Academic Year: _____

Please provide further detail on how you plan to complete this component. Answer the following questions in your response: *(a) How will this activity/course enhance your understanding of your Grand Challenge, (b) What is the expected time commitment you will spend on this activity/course, and (c) Why do you believe this activity/course is relevant to your Grand Challenge?*

Component #3	Options (select ONE) *note name/title of activity*	Est. Complete Date:
Viable Business / Entrepreneurship Competency	☐ A. Business Plan/Pitch Competition _____ ☐ B. Entrepreneurship/Management Course _____ ☐ C. Capstone Project or Senior Design _____ ☐ D. Other/Special Topics _____	Semester/Term: _____ Academic Year: _____

Please provide further detail on how you plan to complete this component. Answer the following questions in your response: *(a) How will this activity/course enhance your understanding of your Grand Challenge, (b) What is the expected time commitment you will spend on this activity/course, and (c) Why do you believe this activity/course is relevant to your Grand Challenge?*

Component #4	Options (select TWO) *note name/title of activity*	Est. Complete Date:
Multicultural Competency	☐ A. Study Abroad/Study Tour _____ ☐ B. Multicultural or Global Service RSO _____ ☐ C. Professional Conferences/Meetings _____ ☐ D. Approved ACE 9 Elective _____ ☐ E. Other/Special Topics _____	Semester/Term: _____ Academic Year: _____

Please provide further detail on how you plan to complete this component. Answer the following questions in your response: *(a) How will this activity/course enhance your understanding of your Grand Challenge, (b) What is the expected time commitment you will spend on this activity/course, and (c) Why do you believe this activity/course is relevant to your Grand Challenge?*

Component #5	Options (select TWO) *note name/title of activity*	Est. Complete Date:
Social Consciousness Competency	☐ A. Engineering Ambassadors Network _____ ☐ B. Volunteer/Service Experience _____ ☐ C. ENGR 100/1000, or approved Service Learning Course _____ ☐ D. Other/Special Topics _____	Semester/Term: _____ Academic Year: _____

Please provide further detail on how you plan to complete this component. Answer the following questions in your response: *(a) How will this activity/course enhance your understanding of your Grand Challenge, (b) What is the expected time commitment you will spend on this activity/course, and (c) Why do you believe this activity/course is relevant to your Grand Challenge?*