The Olin College
Grand Challenge Scholars Program

Utilizing Olin Curriculum:
A Student’s Journey Through the GCSP
Five Curricular Components

- GCSP Project
- Entrepreneurship
- Interdisciplinary work
- Service Learning
- Global Experience
The Learning Continuum

Courses
- First Year Curriculum
- Degree Requirements & Electives
- Independent Studies
- Olin Self Study (OSS)
- SCOPE
- Study Away

Research
- Chaos, Maps, and Music
- Design Team Dynamics
- Diversifying Engineering Through Gateway Courses
- Wheel Design for Climbing Sandy Slopes at Slow Speeds

Passionate Pursuits
- Board Game Design
- Ceramics
- Jujitsu
- Solo Piano Performance
- West Coast Swing

Co-Curriculars
- Current Events Lunch Table
- Fundamentals of Public Speaking
- Gender and Engineering
- Origami
- Puzzling and Trivial Phenomena

Community Service
- Big Brothers, Big Sisters
- Computing Opportunities for Disabled Adults (CODA)
- FIRST Robotics
- Habitat for Humanity

Service to the College
- Committees
- Honor Board
- Olin Volunteer Ambassador League (OVAL)
- Resident Resources (R2s)

Clubs and Orgs
- Council of Olin Representatives (CORE)
- Franklin W. Olin Players (FWOP)
- Greening Olin (GO)
- Society of Women Engineers (SWE)
- Student Activities Committee (SAC)

Recreation
- Flying Franks Ultimate Frisbee Team
- Intramurals
- Outing Club
- Phoenix Soccer Team

Office of Student Life

Franklin W. Olin College of Engineering
The Olin College Grand Challenge Scholars Program

Utilizing Olin Curriculum: A Student’s Journey Through the GCSP
### Acknowledgements:
This proposal was made possible by the help and feedback of many Olin community members. Lead authors of the document are bolded.

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<th>Name</th>
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Inspire

Grand Challenge Curricular Components

Integrate

Choices in my education

Inform

Interests and Passions
The Olin College Grand Challenge Scholars Program

Utilizing Olin Curriculum: A Student’s Journey Through the GCSP
Olin’s GCSP was created with the vision that it will:

1. Support and build upon *existing strengths*, cultures, and core competencies *of the Olin experience*

2. Create a *nationwide community of learners* by connecting with scholars in other schools, and involving *alumni*, faculty, and industry experts as mentors

3. *Educate leaders* capable of affecting change through means varying from entrepreneurial action to service contributions all in an effort to bridge global perspectives on issues of importance
GCSP Curricular Requirements

- GC Project: “Advancing Personalized Learning”
- Interdisciplinary Experience
- Entrepreneurship
- Service Learning
- Global Awareness
Modeling and Control

Real World Measurements

Electronics and Magnetism

Science Elective

Science/Math Elective

Olin Self-Study

Capstone Experiences: SCOPE Program (Two Semesters)
AHS or Entrepreneurship Capstone (One Semester)
Modeling and Control Real World Measurements
Modeling and Control

Real World Measurements

Principles of Engineering

Business and Entrepreneurship Foundation

Context

Arts/Humanities/Social Science (AHS) Foundation

Capstone Experiences: SCOPE Program (Two Semesters)
AHS or Entrepreneurship Capstone (One Semester)
Grand Challenge Scholars Program Experience
Marco Morales: "Creating Visual, Self-Directed Learning Environments"

GC Project: "Advancing Personalized Learning"
Interdisciplinary Experience
Entrepreneurship
Service Learning
Global Awareness

GCSP Curricular Requirements
# Grand Challenge Scholars Program Experience

Marco Morales: "Creating Visual, Self-Directed Learning Environments"

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Grand Challenge Scholars Program Experience
Marco Morales: "Creating Visual, Self-Directed Learning Environments"
Grand Challenge Scholars Program Experience
Marco Morales: "Creating Visual, Self-Directed Learning Environments"
GC Project: “Advancing Personalized Learning”

Interdisciplinary Experience
- Neurons, Networks & Behavior
- Designing Qualitative Material Selection Criteria Indices
- "Vital Ideation for your Everyday Life"

Entrepreneurship
- Foundations of Business & Entrepreneurship
- Entrepreneurship Capstone
- Service Learning
- Internships
- Startups
- Extracurriculars
- Redesigning Olin’s Introductory Experience (OIE)

Global Awareness
- Culture and Difference: Anthropological Approach
- Recreation at Olin Committee

Personal Startups
- User-Oriented Collaborative Design
- Mobile User Experiences

Service Learning
- Spanish Table
- LifeHacks: Information Literacy

Co-Curricular
- Olin Tutoring Squad
- Alight Learning
- IdeaTree Design
- Olin Services

Co-Curricular Independent Studies
- Designing Qualitative Material Selection Criteria Indices
- Exploration of Future Mobile User Experiences

Interdisciplinary Independent Studies
- Entrepreneurship & New Ventures
- Intensive French

Course
- International Studies

Personal Startups
- Foundations of Business & Entrepreneurship
- Entrepreneurship Capstone
Olin’s GCSP

- Self-identification on the basis of
  - Interest and enthusiasm about a subject
  - Mentorship with expertise in the subject matter

- Student-defined plans of study around 5 curricular components that serve as a lens for students’ academic path
  - Large Project
  - Entrepreneurship
  - Interdisciplinary work
  - Service Learning
  - Global Experience

- Large emphasis on
  - reflection and
  - Self-direction as learning and evaluation tools
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