General Studies Request Form

Please see the [General Studies Request Overview and FAQ](#) for information and quick answers.

New permanent numbered courses must be submitted to the workflow in [Kuali CM](#) before a General Studies request is submitted here. The General Studies Council will not review requests ahead of a new course proposal being reviewed by the Senate.

Proposal Contact Information

Submitter Name	Submitter Email	Submitter Phone Number
Adam Carberry	adam.carberry@asu.edu	480-727-5122

College/School	Department/School
College of Integrative Sciences and Arts (CLS)	College of Integrative Sciences and Arts (CBIS)

Submission Information

Type of submission:

New Request (Course or topic does not currently hold this designation)

Requested Effective Date

Fall 2023

ASU Request

Is this request for a permanent course or a topic?

Permanent Course

Subject Code	Course Number	Units/Credit Hours
STS	102	3

Course Information
Courses approved for General Studies require mandatory review every five years.

Course Title

Engineering for All

Course Catalog Description

Challenges students to uncover hidden valuable connections among a variety of disciplines while creatively seeking and solving problems in teams. Students learn and practice skills for how groups function and identify innovation while addressing the tensions between our inherent drives to seek and solve, to share and to sell.

Is this a crosslisted course?

No

Is this course offered by another academic unit?
No

General Studies

Requested Designation

HU - Humanities, Arts and Design

HU: Humanities, Arts and Design
<u>Rationale and Objectives</u>

The humanities disciplines are concerned with questions of human existence and meaning, the nature of thinking and knowing, with moral and aesthetic experience. The humanities develop values of all kinds by making the human mind more supple, critical, and expansive. They are concerned with the study of the textual and artistic traditions of diverse cultures, including traditions in literature, philosophy, religion, ethics, history, and aesthetics. In sum, these disciplines explore the range of human thought and its application to the past and present human environment. They deepen awareness of the diversity of the human heritage and its traditions and histories, and they may also promote the application of this knowledge to contemporary societies.

The study of the arts and design, like the humanities, deepens the student's awareness of the diversity of human societies and cultures. The arts have as their primary purpose the creation and study of objects, installations, performances, and other means of expressing or conveying aesthetic concepts and ideas. Design study concerns itself with material objects, images and spaces, their historical development, and their significance in society and culture. Disciplines in the arts and design employ modes of thought and communication that are often nonverbal, which means that courses in these areas tend to focus on objects, images, and structures and/or on the practical techniques and historical development of artistic and design traditions. The past and present accomplishments of artists and designers help form the student's ability to perceive aesthetic qualities of artwork and design.

The Humanities, Arts and Design are an important part of the General Studies program, for they provide an opportunity for students to study intellectual and imaginative traditions and to observe and/or learn the production of artwork and design. The knowledge acquired in courses fulfilling the Humanities, Arts and Design requirement may encourage students to investigate their own personal philosophies or beliefs and to understand better their own social experience. In sum, the Humanities, Arts and Design core area enables students to broaden and deepen their consideration of the variety of human experience.

[Revised March 2021]

Note: The following types of courses are excluded from the "HU" designation, even though they might give some consideration to the humanities, arts and design:
1. Courses devoted primarily to developing skill in the use of a language.
2. Courses devoted primarily to the acquisition of quantitative or experimental methods.
3. Courses devoted primarily to teaching skills.

"HU" courses must meet *either* 1, 2, or 3 *and* at least one of the criteria under 4 in such a way as to make the satisfaction of these criteria **a central and substantial portion** of the course content.

Select which "HU" criteria this course meets.

1. Emphasizes the study of values; the development of philosophies, religions, ethics or belief systems; and/or aesthetic experience.

3. Concerns the interpretation, critical analysis, or engagement with aesthetic practices; and/or the critical analysis (not summary or memorization) of historical development of artistic or design traditions.

"HU" Criteria 1
Emphasizes the study of values; the development of philosophies, religions, ethics or belief systems; and/or aesthetic experience.

Identify the submitted documentation that provides evidence.

Course Syllabus

How does this course meet the spirit of this criteria?

Course Learning Outcome #2: Understand the impact and ethical implications of engineering in and on society.
Course Learning Outcome #5: Use self-reflection to identify personal values, motivations, strengths, interests, and skills.

Please provide detailed evidence of how this course meets this criteria (i.e. where in the syllabus or other course materials).

Assignment 2b: Students clarify their own personal values and how those values could be applied if they were to become an engineer.
Assignment 3: Students explore one of the world's grandest challenges: access to clean water. Students consider how engineering designs can lead to additional problems and how ethics plays a role in engineering solutions.
Assignment 5: Students critically analyze their experiences having engaged in an authentic design experience.
Assignment 7: Students understand stakeholder values and their responsibility as engineers to design a solution that meets the needs of the stakeholders.
Assignment 10: Students learn about the importance (or value) of engineering and the ethical implications tied to engineering solutions.
Assignment 12: Students critically assess the professional and ethical practices they leveraged (and developed) in designing an engineering solution.

"HU" Criteria 3
Concerns the interpretation, critical analysis, or engagement with aesthetic practices; and/or the **critical analysis (not summary or memorization)** of historical development of artistic or design traditions.

Identify the submitted documentation that provides evidence.

Course Syllabus

How does this course meet the spirit of this criteria?

Learning Outcome #1: Engage with and discover how engineering connects to the world around us.

Please provide detailed evidence of how this course meets this criteria (i.e. where in the syllabus or other course materials).

Assignment 1: Students critically analyze their desired career and identify connections with the field of engineering.
Assignment 2a: Students investigate the life of an engineer to understand the historical impact engineering innovations have had on our world.
Assignment 13: Students identify a personally meaningful problem they want to solve to improve their own lives.

"HU" Criteria 4

In addition, an "HU" course must meet one or more of the following requirements. Select all that apply.

b. Concerns aesthetic systems and values, especially in literature, arts, and design.

c. Emphasizes aesthetic experience and creative process in literature, arts, and design.

"HU" Criteria 4B Information
Concerns aesthetic systems and values, especially in literature, arts, and design.

Identify the submitted documentation that provides evidence.

Course Syllabus

How does this course meet the spirit of this criteria?

Learning Outcome #4: Use engineering design and critical thinking to address local and global needs.

Please provide detailed evidence of how this course meets this criteria (i.e. where in the syllabus or other course materials).

Assignment 7: Students understand stakeholder values and their responsibility as engineers to design a solution that meets the needs of the stakeholders.
Assignment 10: Students learn about the importance (or value) of engineering and the ethical implications tied to engineering solutions.

"HU" Criteria 4C Information
Emphasizes aesthetic experience and creative process in literature, arts, and design.

Identify the submitted documentation that provides evidence.

Course Syllabus

How does this course meet the spirit of this criteria?

Learning Outcome #3: Develop and apply professional skills, including collaboration, communication, and project management.
Learning Outcome #4: Use engineering design and critical thinking to address local and global needs.

Please provide detailed evidence of how this course meets this criteria (i.e. where in the syllabus or other course materials).

Assignment 4: Students engage in multiple, hands-on engineering design experiences as an aesthetic experience.
Assignment 6: Students engage in a guided engineering design experience and document the process.
Assignment 8: Students practice the professional skill of communication by presenting a summary of their design experience.
Assignment 9: Students reflect on the experience as a means of improving their design process for the next design experience.
Assignment 11: Students review their individual contributions to a team-based engineering design experience.
Assignment 14 & 15: Students summarize their experience.

Attach a sample syllabus for this course or topic, including the list of any required readings.

STS 102 Syllabus_updated.pdf

Attach the table of contents from any required textbook(s).

Maoveni ToC (1).pdf

Attach any other materials that would be relevant or helpful in the review of this request.

No Response

Admin Only

Mandatory Review Implementation Needed

Form Submission - Proposer

Submitted for Approval | Proposer

Cynthia Rose - April 10, 2023 at 12:30 PM (America/Phoenix)

Department Approval

Approved

Trisha Eardley - April 10, 2023 at 12:31 PM (America/Phoenix)

Manuel Aviles-Santiago

Cynthia Rose

Christina Villa

Rachel Diepenbrock

Provost's Office Review

Approved

April Randall - April 10, 2023 at 3:23 PM (America/Phoenix)

Humanities, Arts and Design Committee Review

Acknowledgement Requested

Bertha Manninen - April 24, 2023 at 10:21 AM (America/Phoenix)

We recommend a revise and resubmit for this class.

The topic definitely affords itself to the humanities designation. We think it meets Criteria 1 and but, to our eyes,, does not satisfy any of the 4 criteria.For example, Engineering and Assignment 11 requires students, to "critically analyze" their contribution to their team's project, but that seems to stretch "critical analysis" here. The table of contents that they included aren't helpful; they provide no substantial information about what the textbook actually discusses. The book could just as well be an excellent source for critical cultural analysis, or it could be a by-the-numbers textbook for engineers in training. Revise and Resubmit with a focus on articulating more clearly the aspects of the class that satisfy any of the 4.

Michelle Saint

Mina Suk

Peter Schmidt

General Studies Council Meeting

Waiting for Approval

April Randall

Proposer Notification

Notification

Cynthia Rose

Permanent Course Notification

Notification

Tanaya Dempsey