



Online Ethics Center  
FOR ENGINEERING AND SCIENCE

# **Building an 'Ethics Spine' into Biomedical Engineering Curriculum at Arizona State University**

## **Description**

This project summarizes an on-going initiative to systematically integrate ethics into the biomedical engineering undergraduate program at Arizona State University. The project aims to develop student capacity and confidence to grapple with a range of ethics-related issues.

## **Body**

**The OEC Project Pages are intended to cultivate a community of practice and allow ethics researchers, educators, and practitioners to more effectively disseminate their work. This Project Page provides a detailed overview and relevant resources for an on-going science or engineering ethics project. Once you've explored this project, visit the "Projects" section under "Resources" to see more ethics projects.**

## ***Description***

The undergraduate biomedical engineering program at Arizona State University offers a 4-year B.S.E. degree. Approximately 850 students are currently enrolled in this program, which is taught by about 30 faculty. The core objective of this

initiative is to ensure more systematic integration of ethics into the curriculum, and to develop student capacity and confidence to grapple with a range of ethics-related issues.

## ***Leadership***

### **Emma Frow**

School of Biological and Health Systems Engineering  
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### **Stephen Helms Tillery**

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### **Jerry Coursen**

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### **James Abbas**

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## ***Recipient Organization***

Arizona State University

## ***Start and End Date***

January 2017-ongoing

## ***Contact Information***

## ***Publications, Presentations, and Other Products***

Frow, E., Abbas, J., Coursen, J. & Helms Tillery, S. "Growing a backbone: Building an 'Ethics Spine' into a 4-year biomedical engineering curriculum," *American Society for Engineering Education – Pacific Southwest Section*, ASU, 20-22 April 2017  
[Poster + Poster Abstract].

## ***Attached Resources***

1. [Growing a Backbone: Building an 'Ethics Spine' into a 4-year Biomedical Engineering Curriculum \(Abstract\)](#)
2. [Growing a Backbone: Building an 'Ethics Spine' into a 4-year Biomedical Engineering Curriculum \(Poster\)](#)

### **Rights**

Use of Materials on the OEC

### **Resource Type**

Projects

### **Discipline(s)**

Biomedical Engineering and Bioengineering  
Engineering  
Teaching Ethics in STEM