



2023 – 2024 Applied Engineering Program Application

Name: _____

Date: _____

Applied Engineering Program Certificate Requirements:

The intent of the Applied Engineering Program is to expose students to as many different aspects and facets of the engineering profession and its many fields of study. To that end, there are no specific requirements that must be fulfilled in order to complete the program (other than successfully completing an advanced engineering course). Rather, the program has been structured to reward students with credits as they complete a wide variety of engineering-related courses and activities.

Instructions:

1. Fill out the “Interest Level Survey” for each of the engineering subject areas. There are no wrong answers for the survey! Please give careful consideration to each item.
2. Respond to the three “Essay Questions” listed below. **Each** response must be **at least 250 words** and must be typed and submitted on a separate sheet(s) of paper.
3. Obtain the necessary signatures of approval at the bottom of the next page.
4. Make a copy of this form to keep for your records and then return it to the Applied Engineering Program Director.
5. Read the Applied Engineering Program Credits form for specific Applied Engineering Program Certificate requirements.

Essay Questions:

1. Which of the above “Interest Level Survey” topics interests you the most? Why? Give examples. How might this topic relate to the field of engineering? Give examples.
2. Do you think being in the Applied Engineering Program will help your education and career? If so, how? If not, why not? Give examples.
3. Do you think engineers make a positive contribution to our society? If so, how? Give examples.

Interest Level Survey:

	Not at all				Somewhat				Very	
Algebra	1	2	3	4	5	6	7	8	9	10
Geometry	1	2	3	4	5	6	7	8	9	10
Pre-calculus/Calculus	1	2	3	4	5	6	7	8	9	10
Statistics	1	2	3	4	5	6	7	8	9	10
Biology	1	2	3	4	5	6	7	8	9	10
Chemistry	1	2	3	4	5	6	7	8	9	10
Physics	1	2	3	4	5	6	7	8	9	10

	Not at all			Somewhat				Very		
	1	2	3	4	5	6	7	8	9	10
Water Conservation	1	2	3	4	5	6	7	8	9	10
Business/finance	1	2	3	4	5	6	7	8	9	10
Leadership	1	2	3	4	5	6	7	8	9	10
Engineering Club(s)	1	2	3	4	5	6	7	8	9	10
Engineering Service	1	2	3	4	5	6	7	8	9	10
Independent Study	1	2	3	4	5	6	7	8	9	10
Field trips	1	2	3	4	5	6	7	8	9	10
Coops/internships	1	2	3	4	5	6	7	8	9	10
Problem solving	1	2	3	4	5	6	7	8	9	10
Robotics	1	2	3	4	5	6	7	8	9	10
Land Surveying	1	2	3	4	5	6	7	8	9	10
Renewable energy	1	2	3	4	5	6	7	8	9	10
Computer programming	1	2	3	4	5	6	7	8	9	10
Computer-Aided Design (CAD)	1	2	3	4	5	6	7	8	9	10
Woodworking/Construction	1	2	3	4	5	6	7	8	9	10
Environmental concerns	1	2	3	4	5	6	7	8	9	10

Summary and approvals:

Your signature/date: _____

Faculty Advisor signature/date: _____

Academic Advisor signature/date: _____

After reviewing your application materials, the Applied Engineering Program Director will reach out to you to schedule a brief interview.

Applied Engineering Program Director signature/date: _____