



Investigating Engineering College Programs

Instructions: Using some of the suggested links at the bottom of this page or the college catalogs, investigate the requirements of a specific engineering degree that is of interest to you and the engineering technician degree or Associate of Science degree. Answer questions listed below.

Engineering Degrees: Chemical Engineering, Civil Engineering, Electrical Engineering, Geological Engineering, Mechanical Engineering ,

Engineering Technician Degrees: Civil Engineering Technician, Associate of Science Degree

1. Using the suggested sites find at least one engineering curriculum at a university. It may be in electrical engineering, mechanical, chemical engineering, engineering technology, or whatever is of greatest interest to you. Record the name of the university, the name of the degree program.

2. How many semester hours are dedicated to general education courses (Note: 2 semester hours = 3 quarter hours)?

Engineering _____

Eng. Technician _____

3. List any course requirements that relate to engineering (e.g. Technology & Society, Engineering Ethics, etc.). Provide the title of the course and the number of credits.

Engineering:

Eng. Technician:

4. How many semester credits of mathematics are required?

Engineering _____ Eng. Technician _____

5. How many semester credits of science are required?

Engineering _____ Eng. Technician _____

6. How many credits are required within the engineering specialty?

Engineering _____ Eng. Technician _____

7. What other requirements are there for graduation? (internship, foreign language, etc.)

Engineering:

Eng. Technician:

8. How many semester hours are required to graduate with a baccalaureate degree?

Engineering _____ Eng. Technician _____

9. Assuming one has all required high school courses, how long will it take to complete this degree?

Engineering _____ Eng. Technician _____

10. What were some of the unique elements that you find interesting or unusual?
11. What are some differences between engineering the engineering technology programs?
12. Write a brief summary comparing the advantages and disadvantages of two types of degrees.

Resources

UND Engineering and School of Minds

<http://www.und.edu/dept/sem/>

Bismarck State College – Engineering Technology Program

<http://www.bismarckstate.edu/faculty/engr/>

<http://www.bismarckstate.edu/faculty/engitech/>

NDSU

<http://www.ndsu.nodak.edu/ndsu/cea/>

NDSCS

[http://www.ndscs.nodak.edu/instruct/curriculum/asbfactsheet/la-engineering\(new\).htm](http://www.ndscs.nodak.edu/instruct/curriculum/asbfactsheet/la-engineering(new).htm)

Standards for Technological Literacy

- Standard #1
- Standard #2
- Standard #3

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