



# Alternate Career Planner

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# Problem Statement

What problem plagues Sid every day?



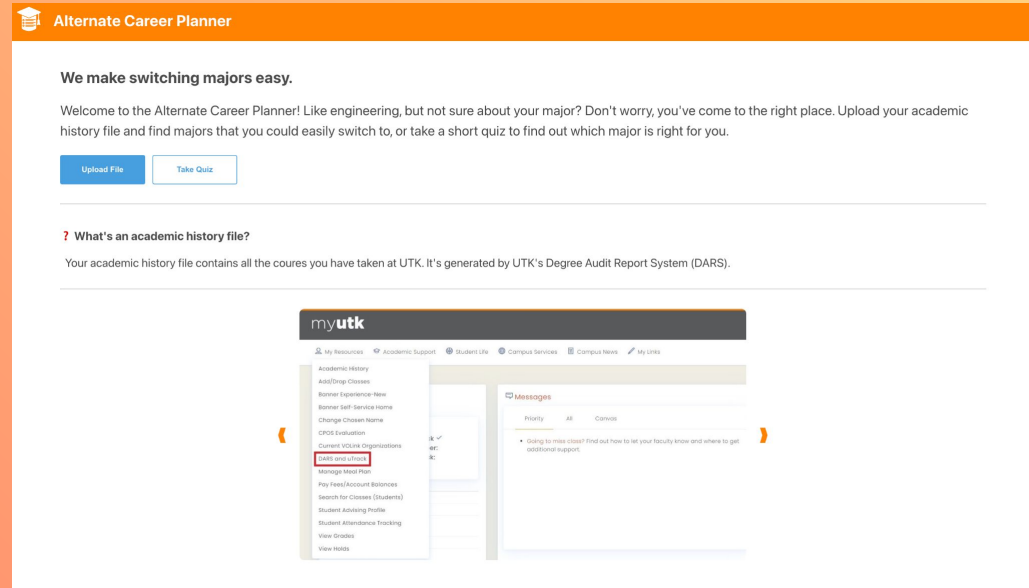
# Project Summary

Take an Interest Quiz

Upload Your Course History

See personalized Top 3  
Engineering majors to switch  
to

Learn about other  
Engineering careers

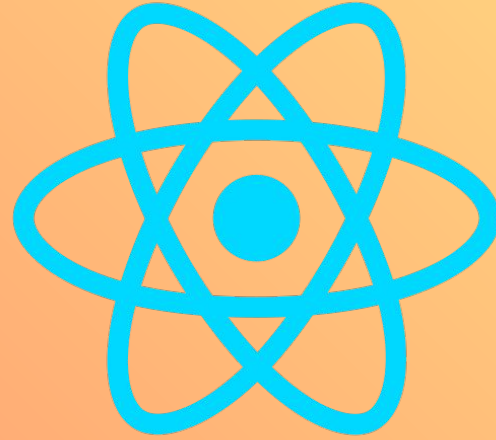


# Tools



# Flask

web development,  
one drop at a time



# Take The Quiz

## Interest Quiz

Answer a few questions to find out which major is right for you.

### Question 1

Which of the following topics are you most interested in studying?

Hardware and software aspects of computer systems

Challenges in biology and medicine

Designing and building systems and machines

Properties of materials at the atomic level

Next

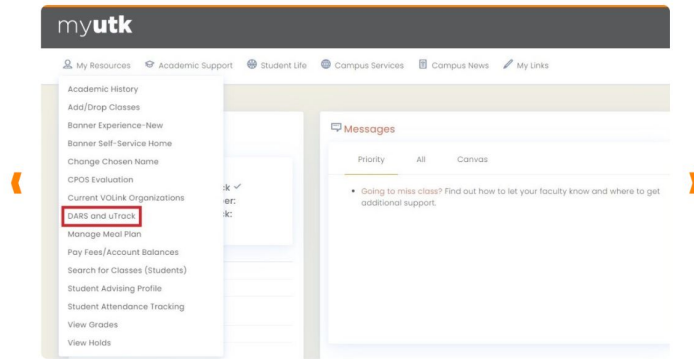
# Upload Process



## Alternate Career Planner

### ? What's an academic history file?

Your academic history file contains all the courses you have taken at UTK. It's generated by UTK's Degree Audit Report System (DARS).



### How to Download Your Academic History File:

- ✓ Step 1: In myUTK, click the My Resources Tab, and select DARS and uTrack.
- ✓ Step 2: Select Run Declared Programs.
- ✓ Step 3: Select your audit from the Program Column.
- ✓ Step 4: Navigate to the Course History tab.
- ✓ Step 5: Right click the Course History table and select Save As.
- ✓ Step 6: Save your academic history file as filetype WebPage, HTML Only.

# Suggested Majors and Course History



## Alternate Career Planner

ENGINEERING ANALYSIS

IP

SYSTEM DYNAMICS

IP

INTRODUCTION TO EVIL

A

HONORS: AIRPLANE PERFORMANCE

IP

HONORS: FLUID MECHANICS

IP

SYSTEMS PROGRAMMING

F

THERMODYNAMICS

B+

MECHANICS OF MATERIALS

B-

CALCULUS III

C+

CIRCUITS/ELECTRO MECH COMPON

C

FUND PHYS: ELECTRIC/MAGNETISM

B-

DYNAMICS

B-



We estimate that you have completed **46%** of the required courses for **Aerospace Engineering**.

Aerospace engineering uses the basic sciences and mathematics to develop the foundation for the design, development, production, testing, and applied research associated with aerospace vehicles. These vehicles include aircraft, spacecraft, and missiles. Auxiliary and propulsion systems are also an integral part of this education. These include guidance, control, environmental, ramjet, rocket, turbo-jet, and piston engine systems. Emphasis in the senior year is directed toward these topics, and the program culminates in a major aerospace design project.

### Potential Careers

#### Pilot

Pilots operate aircraft, including planes and helicopters, ensuring safe navigation and transport of passengers or cargo from departure to destination based on flight plans.



# Quiz Results



## Alternate Career Planner

### My Quiz

[View Results](#)[Retake Quiz](#)

### Majors

[Aerospace Engineering](#)[Biomedical Engineering](#)[Chemical Engineering](#)[Civil Engineering](#)[Computer Engineering](#)[Computer Science](#)[Electrical Engineering](#)[Environmental Engineering](#)[Industrial Engineering](#)[Materials Science and Engineering](#)[Mechanical Engineering](#)[Nuclear Engineering](#)

## Quiz Results

Thanks for taking the quiz! Based on your provided answers, we think you'll enjoy:



## Materials Science and Engineering

At the Department of Materials Science Engineering, we stay on the leading edge of technology through the development of new materials and the improvement of existing materials for applications in all engineering fields. As an interdisciplinary field, MSE is at the forefront of modern technological advances, offering students a stepping stone to solving tomorrow's grand challenges as they take their next steps toward their future in engineering.

### Potential Careers

#### Materials Engineer

Materials engineers analyze and develop new materials for various applications, studying their properties to create products with enhanced performance and durability.

#### Metallurgist

Metallurgists focus on the properties and performance of metals, developing processes to extract, refine, and shape metals for use in a variety of industries.



# Exploring Other Majors



## Alternate Career Planner

### My Quiz

[View Results](#)

[Retake Quiz](#)

### Majors

[Aerospace Engineering](#)

[Biomedical Engineering](#)

[Chemical Engineering](#)

**[Civil Engineering](#)**

[Computer Engineering](#)

[Computer Science](#)

[Electrical Engineering](#)

[Environmental Engineering](#)

[Industrial Engineering](#)

[Material Science & Engineering](#)

[Mechanical Engineering](#)

[Nuclear Engineering](#)



## Civil Engineering

The undergraduate civil engineering program provides a broad-based civil and environmental engineering education that builds off the Tickle College of Engineering's engage Engineering Fundamentals Program. Courses in each of the major areas of civil and environmental engineering are offered at the junior and senior level. Through technical electives, students can gain a greater depth of knowledge in specializations of interest. Students desiring an even greater depth of knowledge in an area will typically pursue a master's degree.

### Potential Careers

#### Surveyor

Surveyors analyze land features and boundaries, collecting data used in the planning and construction of infrastructure projects like roads, bridges, and buildings.

#### Structural Engineer

Structural engineers focus on designing buildings and structures that can withstand various forces, ensuring they are safe, stable, and durable over time.

#### Urban Planner

Urban planners develop plans for land use in urban areas, considering factors like population growth, infrastructure needs, and sustainable development to create efficient cities.

# Live Demo - Let's Save Sid

