

SPATIAL ANALYSIS AND ENGINEERING DESIGN PRINCIPLES, CERTIFICATE

Requirements for an undergraduate certificate may be completed at any campus location offering the specified courses for the certificate.

Program Description

This certificate provides innovative instruction about the application of new design methods and processes in a variety of engineering disciplines. The certificate emphasizes how to use computer-aided design (CAD) software to create concise drawings to develop an effective design system to provide solutions for specific products, systems, components, or services. The certificate further investigates the significance of industry standards and the practices of spatial analysis and tolerance requirements in design. Contact Douglas Miller at Penn State DuBois, 814-375-4731 or djm290@psu.edu.

What is Spatial Analysis and Engineering Design Principles?

Spatial analysis and design combines both technical and design skills to aid in the development methods for solving engineering problems. Starting with the basic methods and ethics of engineering design and developing computer-aided design (CAD) skills, this program is intended to help develop drafting, design, and CAD skills.

You Might Like This Program If...

You are good with technology, enjoy investigating the design behind parts and components, have every disassembled machines or appliances to see how they work, or have an interest in computer-aided design (CAD) software.

Employment opportunities upon completion of the certificate program have included employers seeking draftsmen, designers, and assistant entry-level engineering and engineering technology level opportunities.