

## University of the District of Columbia BS in Mechanical Engineering BS in Computer Science



### About University of the District of Columbia

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This is a public, urban land-grant university in the nation's capital. The University of the District of Columbia is committed to a broad mission of education, research and community service. Established by abolitionist Myrtilla Miner in 1851, the University of DC offers Associate's, Bachelor's and Master's Degrees and a host of workplace development services designed to create opportunities for student success.

### About PSGIAS

PSG Institute of Advanced Studies was set up by PSG & Sons' charities in 2006 and offers International Education through Credit Transfer Programs. Both Under Graduate and Post Graduate courses are offered in Engineering, Business Management and International Business.

### About BS Mechanical Engineering program and overview

This is a four year engineering degree credit transfer program. The 1<sup>st</sup> year of studies are undertaken in



PSG and the last 1 year at University of the District of Columbia, who award the degree of BS in Mechanical Engineering or BS in Computer Science.

The mechanical engineering bachelor's degree program at the University of the District of Columbia helps the students to develop the technical, problem-solving and analytical skills needed to design, build and foster innovations in mechanical systems. The program offers a balanced curriculum in engineering sciences, design, experimentation, computer skills and ethical standards along with a liberal arts education in mathematics, sciences, social sciences and humanities.

The program is accredited by the Engineering Accrediting Commission of the Accreditation Board for Engineering and Technology (ABET), Inc.

The primary objective of the mechanical engineering bachelor's program at UDC is to give students the knowledge, skills, and tools they need for a successful engineering career or advanced study in the field. The mechanical engineering curriculum emphasizes the study of energy systems, including renewable energy and also covers topics such as Microcontrollers and robotics, Environmental engineering, Engineering in a global context, Thermal and fluid sciences, Material science, Manufacturing processes, Computer applications etc.

## **Student Outcomes**

Students graduating from the mechanical engineering program are expected to acquire the following:

- An ability to identify, formulate and solve complex engineering problems by applying principles of engineering, science and mathematics.

- An ability to apply the engineering design to produce solutions that meet specified needs with consideration for public health, safety, and welfare, as well as global, cultural, social, environmental and economic factors.
- An ability to communicate effectively with a range of audiences.
- An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental and societal contexts.
- An ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks and meet objectives.
- An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.
- An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

## Career Pathways and Prospects

- Mechanical engineers are in high demand, and a mechanical engineering bachelor's degree from UDC will prepare the student for career opportunities in both the private and public sector. Students can find UDC engineering alumni working at the D.C. Metropolitan Transit Authority, NASA, Xerox, Motorola, Northwest Airlines, AT&T and the National Institutes of Health, just to name a few.





- The mechanical engineering / Computer Science degree also provides excellent preparation for the student to pursue graduate studies right at UDC or at other local and national institutions.
- Regardless of continuing education or career aspirations, a degree from one of the strongest ABET accredited engineering programs in the region will give the student a leg up in achieving personal and professional goals.

## **About BS Computer Science program and overview**

The BSCS program is accredited by the Computing Accreditation Commission of ABET ([www.abet.org](http://www.abet.org)).

### **Program Educational Objectives**

Program educational objectives are broad statements that describe what graduates are expected to attain within a few years of graduation.

Our graduates will be proficient in the field of computer science by demonstrating success in professional careers and/or graduate studies, grow professionally by acquiring new skills in computing and adapting to new technologies, tools, and methodologies to provide innovative solutions to computing problems.

practice as responsible professionals who are mindful of ethical issues and societal needs that are inherent in the computing field.

### **Student Outcomes**

CSIT Department's programs enable students to achieve, by the time of graduation:

Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.

Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.

Communicate effectively in a variety of professional contexts.

Recognize professional responsibilities and make informed



judgments in computing practice based on legal and ethical principles.

Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.

Apply computer science theory and software development fundamentals to produce computing-based solutions.

The computer science program (BSCS) is accredited by the Computing Accreditation Commission (CAC) of ABET, Inc

## Housing Services

Both on campus and off campus accommodation are available to the students. These services are designed to support all students in making well-informed decisions when acquiring housing in and around the Washington, DC area and connect them to campus and community resources.

## Student life

There are a number of student clubs and advisory centers which make the students busy

**Website: [www.udc.edu](http://www.udc.edu)**

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Apply online: **[www.psgias.ac.in](http://www.psgias.ac.in)**

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