Degree Plan

Major related courses
GEIT 1411 – Computer Science I
GEIT 1412 – Computer Science II
GEIT 2421 – Data Structures
GEIT 2291 – Professional Ethics
GEIT 2331 – Mathematical Reasoning
GEIT 3341 – Database I
GEIT 3331 – Computer Organization
GEIT 3351 – Principles of SW Engineering
GEIT 4361 – Internship
COSC 2312 – Web Programming
COSC 3332 – Discrete Structures and Comb. Analysis
COSC 3361 – Computer Networks
COSC 3351 – Algorithms
COSC 3411 – Systems Programming
COSC 4361 – Operating Systems
COSC 4461 – Programming Languages
COSC 4362 – Artificial Intelligence
COSC 4363 – Theory of Computation
COSC xxxx – 3 CS Elective courses

Mathematics related courses
MATH 1422 – Calculus I
MATH 1423 – Calculus II
MATH 1424 – Calculus III
MATH 1313 – Statistical Methods
MATH 3433 – Linear Algebra and Diff. Equations
PHYS 1421 – Physics for Engineers I
PHYS 1422 – Physics for Engineers II

Program Structure

Course	No. of Courses	Credit Hours
Core	26	70
College	9	29
Major	9	29
Elective	3	9

Commercial Certification

SAP CISCO EMC² where information lives

Facilities

Smart classrooms with Blackboard, Smartboard and Banner.

Labs: Sun, Electronics, Circuits, Robotics, Arduino, Cloud Computing. Android, iOS.

Admission Requirements

The College of Computer Engineering & Science provides for minimum standards of academic performance from its students. Using a 4.0 scale for course grades, The College of Computer Engineering & Science requires that students maintain minimum grade point averages (GPA) for various categories of courses consisting of:

- 2.0 GPA in courses from the PMU Core Curriculum.
- 2.0 GPA in degree-specific courses (courses from the Core Curriculum that CCES students must complete beyond the minimum requirement).
- 2.25 GPA in courses required by the college (GEIT

How To Apply

Read Admission Guide here

https://www.pmu.edu.sa/pdf/viewer?ID=203

Fill the application form online

https://www.pmu.edu.sa/admission/apply_now_ads

Prince Mohammad Bin Fahd University

College of Computer Engineering and Science

Computer Science

Want more info?

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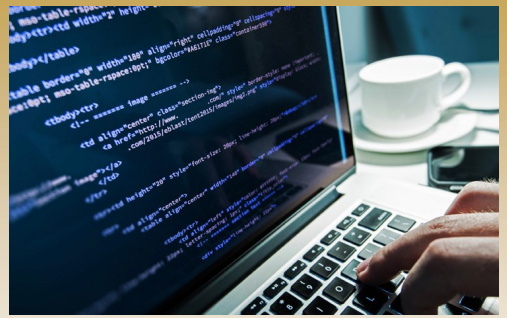
Introduction



Computer Science gives a thorough understanding of mathematic, scientific and engineering concept that covers the wide range of computer systems. Students are exposed to course such as data structure, algorithms and operating systems. Other topics also include artificial intelligence, operations research, computer architecture and organization.

Why Computer Science?

The computer science department in the College of Computer Engineering and Science at PMU provides students the theoretical foundations in the field of computer science and equips them with the practical knowledge needed to succeed in computer industry.

In the world of today, computer science has applications in almost every aspect of life such as medicine, finance, aviation, security, communication, and so on. With such widespread use of computers these days, studying computer science broadens the horizon of our graduates in the job market. We are proud to have faculties from all around the world with expertise in a variety of application areas including Artificial Intelligence, Computer Networks, Databases, Human-Computer Interaction, Operating Systems, Algorithms, Software Engineering, Business Intelligence, Programming Languages, and Computer Organization and Architecture.

Program Objectives

- Graduates will be able to use their knowledge and development skills to design and implement better solutions for the problems related to computer science.
- Graduates will be able to communicate effectively, work in or lead multi-disciplinary teams.
- Graduates will be encouraged and motivated to pursue higher studies in the area of computer science or related areas

Program Outcomes

On graduation from the computer science program, the students will have:

- The ability to apply knowledge of computing and mathematics appropriate to the discipline.
- The ability to analyze a problem, identify its solution, and define the appropriate computing requirements.
- The ability to design, implement, and evaluate computer-based systems
- The ability to function on multi-disciplinary teams.
- An understanding of professional and ethical responsibility.
- The ability to communicate effectively.
- An ability to analyze the local and global impact of computing on individuals, organizations, and society
- Recognition of the need for and an ability to engage in continued professional development.
- An ability to use current techniques, skills, and tools necessary for computing practice.
- An ability to apply mathematical foundations, algorithmic principles, and computer science theory in the modeling and design of computer-based systems in a way that demonstrates comprehension of the tradeoffs involved in design choices.
- An ability to apply design and development principles in the construction of software systems of varying complexity

Career Opportunities

Potential careers of the CS Graduate:

- Application Developer/programmer
- Simulation Specialist
- Graphics, AI and Vision Engineer
- Multimedia and Web Design
- Database Developer/Admin
- Systems Analysis
- Software Engineer

Where some of our graduates are working

Aramco	Halliburton
Sabic	STC
Oracle	Mobily
Samba	Careem
Toshiba	Yokogawa
Rawabi Holdings	GE
Shlumberger	Accenture