Program Structure

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

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

Facilities

Smart classrooms with Blackboard, Smartboard and Banner.

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

Admission Requirements

- Completed online application
- Secondary school certificate or equivalent
- General Aptitude Test (Qudrat) or equivalent
- Standard Achievement Admission Test (SAAT – Tahseely) or equivalent (SAT 2)
- PMU English Placement Test or a valid IELTS certificate (Academic version) / TOEFL iBT with acceptable scores

How To Apply

Apply Online → Receive an email

Pay the application Fee → Submit Documents

Receive Acceptance → Pay the 1st installment

Apply **Pay** **Submit**

Admissions Office:

enrolment@pmu.edu.sa

800 1230 123
+966 13 849 8880

Prince Mohammad Bin Fahd University

College of Computer Engineering and Science

Computer Science

Want more info?

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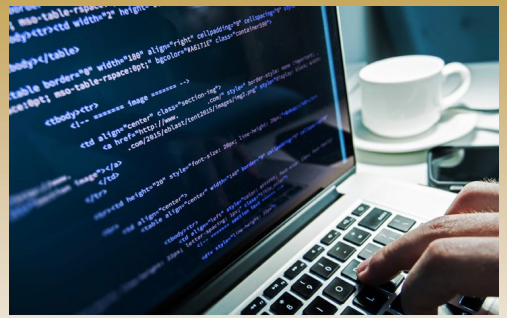
Address:
College of Computer Engineering and Science
P.O.Box 1664 Al-Khobar, 31952
Kingdom Saudi Arabia

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 successful in their work, demonstrate leadership and good communication skills, and function well in teams.
- Graduates will be engaged in self-development and continuous learning in an ever-changing professional environment.
- Graduates will conduct themselves ethically and with integrity, upholding social responsibility, and promoting sustainability
- Graduates will use their knowledge and development skills to analyze requirements, design, and innovate robust and effective solutions for problems related to Computer Science. [CS]

Student Outcomes

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

1. Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.
2. Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.
3. Communicate effectively in a variety of professional contexts.
4. Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.
5. Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.
6. Apply computer science theory and software development fundamentals to produce computing-based solutions.

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

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

Certification Preparation

CISCO

EMC² where information lives