Tiger Courses

Easiest way to search for any Princeton course

Enter search terms

About

FAQ

API

COS

Favorites

COS126 / EGR126
Computer Science: An
Interdisciplinary Approach   **4.5**

COS217
Introduction to Programming
Systems   **3.5**

COS226
Algorithms and Data Structures   **2.3**

39 Search Results

COS126 / EGR126
Computer Science: An
Interdisciplinary Approach   **4.5**

COS217
Introduction to Programming
Systems   **3.5**

COS226
Algorithms and Data Structures   **2.3**

COS226   Algorithms and Data Structures   QR   nPDF   Favorite

This course surveys the most important algorithms and data structures in use on computers today. Particular emphasis is given to algorithms for sorting, searching, and string processing. Fundamental algorithms in a number of other areas are covered as well, including geometric algorithms, graph algorithms, and some numerical algorithms. The course will concentrate on developing implementations, understanding their performance characteristics, and estimating their potential effectiveness in applications.

Sample reading list:
R. Sedgewick and K. Wayne, *Algorithms, 4th edition*

Reading/Writing assignments:
Exercises covering each lecture; weekly programming assignments focusing on problem solving and understanding properties of algorithms and implementations; two required in-class exams. Approximately 75 pages of reading per week.

Requirements/Grading:
Mid Term Exam - 25%
Other Exam - 25%
Programming Assignments - 37%
Problem set(s) - 10%
Other (See Instructor) - 3%

Other Requirements:
Course is required for concentrators
Not Open to Graduate Students.

Prerequisites and Restrictions:
COS 126 (recommended) or approval by the COS placement officer. Enrollment is limited to undergraduate students. Any graduate student interested in enrolling must apply by application only. Please contact

Kevin Wayne

Ratings of previous course   **4.5**

Overall ratings of courses   **4.3**

Evaluation Results

Overall Quality of this course   **4.5**

Feedback of other students on this course   **4.5**

Lectures   **4.5**

Precepts   **4.0**

Readings   **3.8**

Papers, Problem sets, Examinations   **4.5**

1.00 **1.25** **1.50** **1.75** **2.00** **2.25** **2.50** **2.75** **3.00** **3.25** **3.50** **3.75** **4.00** **4.25** **4.50** **4.75** **5.00**

1.00 1.25 1.50 1.75 2.00 2.25 2.50 2.75 3.00 3.25 3.50 3.75 4.00 4.25 4.50 4.75 5.00

1.50	COS333 QR	Advanced Programming Techniques
2.50	COS333 QR	Advanced Programming Techniques
3.50	COS333 QR	Advanced Programming Techniques
4.50	COS333 QR	Advanced Programming Techniques
3.50	COS333 QR	Advanced Programming Techniques

ECO310 SA PDF A — 2.41*
Microeconomic Theory: A Mathematical Appro...

ECO312 QR PDF A — 3.53*
Econometrics: A Mathematical Approach

ECO317 SA PDF A — New
The Economics of Uncertainty

ECO321 SA PDF A — 3.75*
Industrial Organization

🔒 **ECO324** SA NPDF A — 4.51*
Law and Economics

COS 333

Spring 2017 ⇕   Relevance ⇕

1 Favorite Course —

COS126/EGR126 (Spring 2017) ❤ 4.27
Computer Science: An Interdisciplinary A...

48 Search Results —

COS333 🤍 4.18
Advanced Programming Techniques

COS518 🤍 3.35
Advanced Computer Systems

COS583/ELE583 🤍 4.67
Great Moments in Computing

COS126/EGR126 ❤ 4.27
Computer Science: An Interdisciplinary ...

COS217 🤍 3.50
Introduction to Programming Systems

COS226 🤍 3.66
Algorithms and Data Structures

COS320 🤍 3.64
Compiling Techniques

COS340 🤍 3.67

Advanced Programming Techniques

COS333 `NPDF` 🔗 ⬀

Brian W. Kernighan, **Christopher M. Moretti**

This is a course about the practice of programming. Programming is more than just writing code. Programmers must also assess tradeoffs, choose among design alternatives, debug and test, improve performance, and maintain software written by themselves & others. At the same time, they must be concerned with compatibility, robustness, and reliability, while meeting specifications. Students will have the opportunity to develop these skills by working on their own code and in group projects.

Prerequisites

COS 217 and COS 226.

Other Information

This course is NOT open to Continuing Education and Graduate students.

Equivalent Courses

Not Open to Graduate Students.

Open Classes

Section	Days	Time	Room	Enrolled
L01	T Th	11:00 AM - 12:20 PM	Friend Cen 101	205 / 230

Evaluations

Feedback for other students
4.39

Overall Quality of the Course
4.18

Papers, Reports, Problem Sets, Examinations
3.96

Readings
3.65

Lectures
3.81

Student Comments

A good systems departmental, good chance to get a feel for what working on an independent project is like. Know ahead of time who your group will be, and be organized with coordinating with them throughout the project.

A must-take. The development project really shows you all the ups and downs of working with a team on any kind of project. Start early, and be sure to keep your partners accountable.

Awesome class! You learn many new things, whether it's a new language, a new way to think, or how to test your own code in an

I love the interface!

*Wonderful interface.
Thanks a lot!*

*This is much more intuitive and
visually appealing than the
registrar's website!*

Ur website su,x lol

Thanks so much for this!!

*This makes looking for
classes so much easier!!!*

10/10 would recommend

PDF **NPDF** | *One thing I would love to be able to do is* **filter courses by PDF status***.*

New | **Searches for new courses** *would be nice...*

QR **LA** | *Can you add a way to* **search distribution requirements***?*

VIS new

Juniors Only 2
Seniors Only 2
Freshmen and Sophomores Only 8

Ellen Lupton with Andrew Blauvelt
Graphic Design, Now in Production

Paul Rand
Design, Form and Chaos

Donis A. Dondis
A Primer of Visual Literacy

Daniel van der Velden and Vinca Kruk
White Knight, Before a Manifesto

Rudolph Arnhemim
Perception of Graphic Form

Can you add **info page** for things that I can search?

The app does not show **reserved seating**.

I'd like to be able to see the **sample reading list**.

Special CLEAR ALL

* All courses +
NEW New ... +

Distributions CLEAR

EC Epistem... +
EM Ethical ... +
HA Historic... +
LA Literatu... +
SA Social A... +
QR Quantit... +
STL Scienc... +
STN Scienc... +

Grading opti...CLEAR

PDF P/D/F ... +
PDFO P/D/... +
NPDF No P... +
AUDIT Aud... +
NAUDIT Au... +

Course levels CLEAR

cos [filter]

Semester Spring 2017 ▾   **Sort by** Relevance ▾

More options ▾

5 Favorite Courses —

COS340 QR PDF A 📌❤ 3.67*
Reasoning about Computatio.. Spring 2017

COS333 NPDF NA 📌❤ 4.18*
Advanced Programming Tec... Spring 2017

PHY240 STL PDF A 📌❤ N/A
Galactic Exploration with Invi... Spring 2017

CLA255 / PHI255 / CHV255... 📌❤ 4.03*

41 Search Results

Computer Graphics

COS126 / EGR126 QR NA ❤ 4.27*
Computer Science: An Interdisciplinary ...

COS333 NPDF NA ❤ 4.18*
Advanced Programming Techniques

COS598E PDF A ⚠❤ 4.00*
Advanced Topics in Computer Science: ...

COS511 PDF A ❤ 3.95*
Theoretical Machine Learning

Advanced Programming Techniques

COS333 NPDF NA ⤢   ❤1 4.18*

⤢ · Spring 2017

Past Semesters

Fall 2017 Robert M. Dondero Jr. N/A
Spring 2017 Brian W. Kernighan, Chris... N/A
Spring 2016 Christopher M. Moretti 4.18
Spring 2015 Brian W. Kernighan 4.18

Numeric Evaluations (from Spring 2015)

Lectures 3.99
Readings 3.71
Papers, Reports, Problem Sets, Exami... 3.81
Overall Quality of the Course 4.18
Feedback for other students 4.53

Student Comments (from Spring 2015)

A great way to get practical experience in software development, and you'll become more aware of so many different things about software engineering 1 👍

Be ready to prioritize this class as your #1

Instructors

Brian W. Kernighan 7 ▾
Christopher M. Moretti 5 ▾

Description

This is a course about the practice of programming. Programming is more than just writing code. Programmers must also assess tradeoffs, choose among design alternatives, debug and test, improve performance, and maintain software written by themselves & others. At the same time, they must be concerned with compatibility, robustness, and reliability, while meeting specifications. Students will have the opportunity to develop these skills by working on their own code and in group projects.

Assignments

There will be a number of programming assignments and a term project. The project will be done in groups and will involve creation of a major piece of software, the

users	1460
visits	**60%** at least two visits **30%** at least five visits
duration	**35%** at least 30 minutes **24%** at least 60 minutes
total time	**950** hours

"Can you allow exporting schedules in the future?"

"This and ReCal should have a baby."