

COSC 5/4735: Advanced Mobile Programming

Spring 2026

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Office Hours: TBA and by Appointment

Course description:

To build advanced Applications, this course focuses on back-end web services with a ReST/API services and cross platform application development. Using cloud services such as databases and messaging. Deploying apps to the web or cloud systems as well as mobile devices and computer platforms.

Grading: Grades will be based on the percentage listed below and a curved at the end of the semester. There will be no extra credit.
Homework and Labs 100%

Cosc 5735: On each homework assignment there is a graduate student section, which will include additional requirements, that undergraduate version do not need to complete to get full credit on each assignment.

Lecture Course Web page: <http://www.eecs.uwyo.edu/~seker/>

Texts:

Optional:

Web Development with Node & Express 2nd, Ethan Brown
Distributed Systems with Node.js, Thomas Hunter II
Flutter & Dart Cookbook, Richard Rose
Learning Web App Development, Semmy Purewal

Prerequisites:

COSC 2030

Homework:

Programming or homework assigned in lecture will be due at 5pm on the date listed for each assignment, unless otherwise specified Late submissions will be accepted for a period of 24 hours after it is due, with a 20% late penalty. The deduction will not count with a university excused absence. DO NOT TURN HOMEWORK INTO THE EECS OFFICE.

There WILL be homework due for credit during the last week of class.

Topics:

- JavaScript and Node.js
- Web development with node.js
- Express and more plugins.
- React JS for front end web development.

- Database access and Firebase
- Dart and Flutter for cross-platform app development

Please see the Syllabus addendum for additional information.