

Purdue CS 490-CLC/590-CLC - Cloud Computing

Instructor: Professor Douglas Comer (comer@cs.purdue.edu)

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Course outline

This seminar investigates infrastructures, algorithms, technologies, and programming paradigms related to cloud computing. Topics include: data center architectures and programmable networks; hybrid multi-cloud systems; edge computing; using cloud for IoT; virtualization, including containers and Virtual Machines; microservice and service mesh software architectures; high-level orchestration systems, including commercial examples, such as Kubernetes, Docker swarms, MESOS, AWS Lambda, and Google Lambda; hadoop and other algorithms for solving problems in a cloud environment; cloud security and privacy.

Course syllabi

Course syllabi and grading breakdown vary depending on whether the student is enrolled in the 490 or 590 variant of the class.

[490-CLC Syllabus](#)

[590-CLC Syllabus](#)

Piazza

A course Piazza has been created <https://piazza.com/class/k5e9eexdjb03e9> to facilitate student and instructor discussions.

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Permanent link:

<https://courses.cs.purdue.edu/cs590clc:start>

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