### CS 591 Advanced Seminar  credit: 0 TO 4 hours.
Seminar on topics of current interest as announced in the Class Schedule. Approved for S/U grading only. May be repeated in the same or separate terms if topics vary. Prerequisite: As specified for each topic offering, see Class Schedule or departmental course description.

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<tr>
<th>CRN</th>
<th>Type</th>
<th>Section</th>
<th>Time</th>
<th>Days</th>
<th>Location</th>
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Credit Hours: 1 hours
Advanced Compiler Technology
Restricted to Graduate - Urbana-Champaign.
Topic: Advanced Compiler Technology. Prerequisite: CS 426.

Credit Hours: 1 hours
Cloud Computing Research
Restricted to Graduate - Urbana-Champaign.
Topic: Cloud Computing Research.

Credit Hours: 1 hours
Formal Methods Seminar
Restricted to Graduate - Urbana-Champaign.

Credit Hours: 1 hours
Human-Computer Interaction
Restricted to Graduate - Urbana-Champaign.
Topic: Seminar in Human-Computer Interaction. Undergrad student must have permission of the instructor to register. This seminar will meet in 4405 SC.

Credit Hours: 1 hours
Distributed Systems Seminar
Instructor Approval Required
Restricted to Graduate - Urbana-Champaign.
Topic: Advanced Seminar in Distributed Systems. Prerequisite: CS 598IG or CS 425 or any basic course on distributed systems.
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**Lecture-Discussion**

**Scientific Computing Seminar**

- **Credit Hours:** 1 hours
- **Description:** Scientific and Parallel Computing
- **Restrictions:** Restricted to Graduate - Urbana-Champaign
- **Topic:** Scientific and Parallel Computing

**Lecture PHD 11:00 AM - 11:50 AM M**

**PHD Orientation Seminar**

- **Credit Hours:** 1 hours
- **Description:** Orientation for new PhD students
- **Restrictions:** Restricted to Computer Science major(s). Restricted to Graduate - Urbana-Champaign
- **Topic:** Orientation for new PhD students

**Lecture RHC ARRANGED**

**Security Reading Seminar**

- **Credit Hours:** 1 hours
- **Description:** A prior course in security or CS423 or consent of instructor
- **Restrictions:** Restricted to Graduate - Urbana-Champaign
- **Topic:** Security Reading Seminar

**Lecture SE ARRANGED**

**Software Engineering Seminar**

- **Credit Hours:** 1 hours
- **Description:** This seminar is about software engineering research, not focusing on practice
- **Restrictions:** Restricted to Graduate - Urbana-Champaign
- **Topic:** Software Engineering Research Seminar. Prerequisite: A prior course in security or CS423 or consent of instructor

**Discussion TA 11:00 AM - 11:50 AM F**

**Teaching Assistant Training**

- **Credit Hours:** 1 hours
- **Description:** Teaching Assistant Training
- **Restrictions:** Restricted to Graduate - Urbana-Champaign
- **Topic:** Teaching Assistant Training

**Discussion/Recitation TXT ARRANGED**

**Text Mining Seminar**

- **Credit Hours:** 2 hours
- **Description:** Text Information Management and Analysis
- **Restrictions:** Text data are rich in semantic content and often contain valuable information such as human opinions and preferences. They play an important role in all big data applications. Text mining is the process of converting big unstructured text data into actionable knowledge to support user tasks and decision making. CS 591txt is a seminar on current topics in the text mining field, which is closely related to data mining, natural language processing, information retrieval, and machine learning. Students will read, discuss, and analyze the latest research in text mining techniques and applications.