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LATEST NEWS

# CS-0201: RESEARCH EXPERIENCE IN ARTIFICIAL INTELLIGENCE

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Instructor Info:	Los Sweeter		
	Lee Spector		
	lasCCS@hampshire.edu		
	Office Extension:	x5352	
	Office Hours:	Regular office hours: Tuesdays 9:30–11:00, Wednesdays 1:00–2:30, and Thursdays 2:00–3:30. Other times can be set up by arrangement (in person or via email). Sign up for regular office hours, advising day meetings, and occasionally other signup times on Hampedia here.	
Term:	2011F		
Meeting Info:	Monday 0	09:00 AM - 11:50 AM Adele Simmons Hall (ASH) 126	
	Monday	04:00 PM – 06:00 PM Cole Science Center 121	
Description:	Students in this course will become members of research teams focusing on projects designated by the instructor. Projects will involve open research questions in artificial intelligence, artificial life, or computational models of cognitive systems. They will be oriented toward the production of publishable results and/or distributable software systems. Students will gain skills that will be useful for Division III project work and graduate-level research. This class meets once a week for two hours and 40 minutes.		
Course Objectives:	<ul> <li>To engage in scientific/technological inquiry.</li> <li>To work collaboratively with classmates, the professor, and the larger research community.</li> <li>To understand be able to navigate current research literature.</li> </ul>		
Evaluation Criteria	<ul> <li>Attendance: Because this class meets only once a week it is particularly important to attend every session.</li> <li>Participation: Each student is expected to be continuously engaged in course-related activities throughout the semester, to be responsive (always within 24 hours) to their classmates and the professor via electronic mail, and to participate actively in class presentations and discussions.</li> <li>Documentation: Each student is expected to contribute to a project blog on a regular basis.</li> <li>Students will be evaluated with respect to their performance relative to the expectations listed above. Students falling significantly short of these expectations — for example, students with more than one</li> </ul>		

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unexcused absense or students who rail to contribute to class discussions or project blogs — should not expect to receive evaluations.

#### Additional Info:

#### **Texts and Other Materials**

There is no text for this course. Project-specific readings will be assigned on an as-need basis.

We will be programming in the Clojure programming language, using the clooj lightweight integrated development environment and in some cases the leiningen build tool.

We will learn Clojure in part by working through the professor's clojinc examples and problem sets.

# Blog

Project blogging will be supported at http://i3ci.hampshire.edu.

#### **Facilities**

Students may use their own computers, the Macs in ASH 126, and the high performance computing cluster in the Hampshire College Cluster Computing Facility.

## **Division I Distribution Credit**

Successful completion of this course satisfies the Divison I distribution requirement in Mind, Brain, and Information.

# Difficulty/Level

This course is intended to serve students with a wide range of backgrounds. Students with little previous experience should resist being intimidated and bear in mind that I take background into account in writing evaluations. Students with extensive previous experience should note that the class is structured to provide ample opportunities for more advanced work.

## Policies in Regards to Illness, Epidemic, or Pandemic

If you have a fever, please stay home, take good care of yourself, and contact me by email or phone. When you are able to work at home you should be able to participate in classes and to submit work electronically. If your illness makes it impossible for you to meet the course deadlines then contact me and we will negotiate an accommodation.

## **Plagiarism Policy**

Hampshire College has a rigorous policy on plagiarism, outlined in detail in the student handbook. As stated in College documents "Plagiarism (from the Latin for 'kidnapper') is a term covering

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everytning from inadvertently passing off as one's own the work of another because of ignorance, time constraints, or careless note-taking, to hiring a ghost writer to produce an examination or course paper." In particular, it covers false citation, false data, intentional poor documentation, papers written by others, unacknowledged multiple authors or collaboration, unacknowledged multiple submission, and other forms of academic dishonesty. The penalties are severe, so you should always be proactive in identifying all sources. When in doubt you should ask me about what is and isn't appropriate.

In this course we will often be sharing and borrowing code. This is an important aspect of the course and an important aspect of modern programming practice. This does not mean, however, that it is acceptable to submit code that is not your own without acknowledging sources. Sources should be clearly and explicitly provided in everything that you produce.

\* News forum L Chapters from Spector's Automatic Quantum Computer Programming The Push3 Execution Stack and the Evolution of Control What's in an Evolved Name? The Evolution of Modularity via Tag-Based Reference Tag-Based Modules in Genetic Programming Monday, 12 September (09:00AM - 11:50AM) Monday, 12 September (04:00PM - 06:00PM) Monday, 19 September (09:00AM - 11:50AM) Monday, 19 September (04:00PM - 06:00PM) Monday, 26 September (09:00AM - 11:50AM) Monday, 26 September (04:00PM - 06:00PM) Monday, 3 October (09:00AM - 11:50AM) Monday, 3 October (04:00PM - 06:00PM) Monday, 10 October (09:00AM - 11:50AM) Monday, 10 October (04:00PM - 06:00PM) Monday, 17 October (09:00AM - 11:50AM) Monday, 17 October (04:00PM - 06:00PM) Monday, 24 October (09:00AM - 11:50AM) Monday, 24 October (04:00PM - 06:00PM)

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