CSCI 585: Robotics and Machine Intelligence  
CSCI 682: Topics in Artificial Intelligence  
Abbreviated Syllabus for Fall Semester 2007  
Visit http://www.ecst.csuchico.edu/~juliano/csci585 for additional detail.

Prerequisites
- **CSCI majors:**  
  - CSCI 221 (Assembly Language Programming)  
  - CSCI 311 (Algorithms and Data Structures)
- **CIVL / CMGT / EECE / MECH / MECA majors:**  
  - EECE 221 (Processor Architecture and Assembly Language Programming)  
  - EECE 135 (Algorithms and Programs for Engineers)
- **Graduate students:**  
  - Classified Status or Permission of Instructor

Description
3 units. This course introduces students to the field of robotics by emphasizing the task of endowing machines with intelligence. Topics include various case studies of robot architectures and algorithms that facilitate embodying a robot with behaviors that are traditionally associated with human cognition (e.g., perception, reasoning, intelligent navigation, vision, learning, etc.). Students will conduct robotics experiments and participate in robotics exhibitions.

Course # Section Act Days Time Room Instructors
| 7978 | CSCI 585-01 | LEC | R | 0500-0750pm | OCNL 431 | Dr. B.A. Juliano  
| 7982 | CSCI 682-01 | LEC | R | 0500-0750pm | |

Instructor Information
Dr. Ben A. Juliano (a.k.a. Dr. J)  
http://www.ecst.csuchico.edu/~juliano

Office Hours: MTWR, 3-4pm  
OCNL 222  
Tel 530 898-4619 / 6442 (dept office)  
Fax 530 898-5995  
Appointments and walk-ins welcome.

Required Textbook
*Boe-Bot Robot Kit – USB Version*  
Stock Number EDU-28832.  
Parallax Inc., Rocklin, CA.  
http://www.parallax.com

Additional Requirements
1. Students are expected to open and maintain a Chico State Connection (CSC) Portal (see http://portal.csuchico.edu) account in order to access up-to-date on-line calendar of events, current scores, discussion board, etc.

Grade Evaluation
This is a project-centered course. A total of at least three (3) projects will be assigned during the semester. Some projects will be individual projects while others will be group/team projects. Additionally, projects will involve participation in an exhibition with other individuals/teams in the class. Each project must be accompanied by a detailed written report and possibly a web-enabled version of the report. Students are expected to be ready to present their project(s) orally when asked to.

Additional Information
http://www.ecst.csuchico.edu/~juliano/csci585/  
http://www.ecst.csuchico.edu/~juliano/csci682/  
http://www.gotbots.org/  
http://portal.csuchico.edu/  
http://vista.csuchico.edu/