Prerequisites

• Grade of C- or better in CSCI 221(51A), Assembly Language Programming

Description

3 units. This course introduces basic digital logic design techniques and integrates the topics of assembly language programming, computer organization, and computer design. Topics include the design of the arithmetic and logic unit (ALU), hardware multiplication and division, multiple clock cycle implementations, pipelined implementations, hazard detection and forwarding, design of a memory hierarchy, system busses and the design of a direct memory access (DMA) controller, cache consistency in multiprocessor systems, and implementation of a snooping cache. Formerly CSCI 171.

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<tr>
<th>Class #</th>
<th>Section</th>
<th>Act</th>
<th>Days</th>
<th>Time</th>
<th>Room</th>
<th>Instructors</th>
</tr>
</thead>
<tbody>
<tr>
<td>2224</td>
<td>CSCI 320-01</td>
<td>DIS</td>
<td>MWF</td>
<td>1100-1150am</td>
<td>YOLO 178</td>
<td>Dr. J <a href="mailto:Juliano@csuchico.edu">Juliano@csuchico.edu</a></td>
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</tbody>
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Instructor Information

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

Office Hours: MWF, 9-10am and Thurs, 1-3pm
OCNL 222
Tel 530 898-4619 / 6442 (dept office)
Fax 530 898-5995
Appointments and walk-ins welcome.

Required Textbook

Computer Organization and Design, 3/e
Elsevier Inc., Burlington, MA
ISBN 1-55860-604-1

Additional Requirements

1. Students are expected to regularly access their Chico State Connection (CSC) Portal (see http://portal.csuchico.edu) account to update themselves via the WebCT on-line calendar, current progress, discussion board, etc.

2. Students are expected to familiarize themselves with Dr. J’s general policies and expectations as detailed online at /~juliano/Teaching/Policies.html

Grade Evaluation

<table>
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<tr>
<th>Theoretical Component (50%)</th>
<th>Practical Component (50%)</th>
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</thead>
<tbody>
<tr>
<td>31.25% Midterm, Fri, March 10, 11:00-11:50 am</td>
<td>100.00% (In-class or online) Quizzes</td>
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<tr>
<td>68.75% Finals, Mon, May 15, 12:00-1:50 pm</td>
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Also see the on-line syllabus for details of final grade calculation.

Additional Information

http://www.ecst.csuchico.edu/~juliano/csci320/
http://www.ecst.csuchico.edu/~juliano/Architecture/
http://www.ecst.csuchico.edu/~juliano/Teaching/
http://portal.csuchico.edu/