Academic Affairs - Course Proposal Form

Academic Unit: EEE
Department Chair: Dr. S.K. Ramesh

Type of Course Proposal: 
New X Change ___ Deletion ___

Date: February 23, 2006

Does this course fulfill a requirement for single-subject or multiple subject credential students? 
Yes ____ No X ___

For Catalog Copy: Yes X No ___

CCE: Yes ___ No X ___

Semester Effective: 
Fall X ___ Spring ___ 20 06___

Prefix &No. 
EEE 286

Title: Microcomputer System Design II
Units: 3

Change to:
Prefix &No. 

Title: 
Units:

JUSTIFICATION:
Topics are updated due to technological changes in the computer industry.

NEW COURSE DESCRIPTION: (Not to exceed 80 words, and language should conform to catalog copy.)
See http://www.csus.edu/acaf/univmanual/crspsl.htm - Guidelines for Catalog Course Description
Includes PCI and PCI express bus specifications/architecture, PCI bridges transaction ordering, PCI express transactions and handshaking protocols, electromagnetic interference, methods of eliminating interference, shielding grounding, balancing, filtering, isolation, separation, orientation, cancellation techniques and cable design. Class involves design projects and research presentations on PCI and PCI Express Bridge.

Note:
Prerequisite: EEE 285 or CpE 186
Corequisite:
CAN (California Articulation Number):
Graded: Letter ___X__ Credit/NoCredit ___
Instructor Approval? Yes ___ No X ___

Course Classification:
Title for SIS+ (not more than 25 characters)
Microcomputer Sys Des II

Cross Listed?
Yes ___ No X ___

If yes, with what course:

How Many Times Can This Course be Taken for Credit?
Once
FOR NEW COURSE PROPOSALS OR SUBSTANTIVE CHANGES ONLY:

**Description of the Expected Learning Outcomes:** Describe outcomes using the following format: “Students will be able to: 1), 2), etc.” See the example at http://www.csus.edu/acaf/example.htm

| Students will understand the differences between the traditional PCI and PCI Express |
| Students will appreciate the role of system bridges |
| Students will understand the effects of electromagnetic interference and techniques to eliminate them |

**Attach a list of the required/recommended course readings and activities [Note: it is understood that these are updated and modified as needed by the instructor(s).]** This attachment should be forwarded only to your Dean's office, not Academic Affairs.

**Assessment Strategies:** A description of the assessment strategies (e.g., portfolios, examinations, performances, pre- and post-tests, conferences with students, student papers) which will be used by the instructor to determine the extent to which students have achieved the learning outcomes noted above:

| Midterm Exam – 30% |
| Final Exam – 30% |
| Quizzes – 15% |
| Projects – 25% |

**For whom is this course being developed?**

<table>
<thead>
<tr>
<th>Majors in the Dept X</th>
<th>Majors of other Depts</th>
<th>Minors in the Dept</th>
<th>General Education</th>
<th>Other</th>
</tr>
</thead>
</table>

Is this course required in a degree program (major, minor, graduate degree, certificate)? Yes _ No _

If yes, identify program(s):

Does the proposed change or addition cause a significant increase in the use of College or University resources (lab room, computer facilities, faculty, etc.)? Yes _ No _

If yes, attach a description of resources needed and verify that resources are available.

Indicate which department or programs will be affected by the proposed course (if any). ________________________________

*The Department Chair's signature below indicates that affected programs have been sent a copy of this proposal form.*

**Approvals:** If proposed change, new course or deletion is approved, sign and date below. If not approved, forward without signing to the next reviewing authority, and attach an explanatory memorandum to the original copy.

<table>
<thead>
<tr>
<th>Signatures:</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department Chair:</td>
<td></td>
</tr>
<tr>
<td>College Dean or Associate Dean:</td>
<td></td>
</tr>
<tr>
<td>CPSP (for school personnel courses ONLY)</td>
<td></td>
</tr>
<tr>
<td>Director of Curriculum, Assessment &amp; Accreditation (for the Vice President for Academic Affairs)</td>
<td></td>
</tr>
</tbody>
</table>

Distribution: Academic Affairs (original and two copies) Department Chair and College Dean. A copy of this form should be e-mailed, along with the hard copies, as an attachment to profbertson@csus.edu by the Dean's office after it is approved at that level.