### INSTRUCTIONS: Please check the items below which describe the purpose of this request.

<table>
<thead>
<tr>
<th>Purpose</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Deletion of a course</td>
</tr>
<tr>
<td>2. New course with supporting documents</td>
</tr>
<tr>
<td>3. Add existing course offered at another campus</td>
</tr>
<tr>
<td>4. Change in course number at same level</td>
</tr>
<tr>
<td>5. Downgrading of course level</td>
</tr>
<tr>
<td>6. Upgrading of course level</td>
</tr>
<tr>
<td>7. Change in course title</td>
</tr>
<tr>
<td>8. Change in semesters offered</td>
</tr>
<tr>
<td>9. Change in course credit type</td>
</tr>
<tr>
<td>10. Change in course attributes</td>
</tr>
<tr>
<td>11. Change in instructional hours</td>
</tr>
<tr>
<td>12. Change in prerequisites</td>
</tr>
<tr>
<td>13. Change in description of course content</td>
</tr>
<tr>
<td>14. Transfer of course from one dept. to another</td>
</tr>
</tbody>
</table>

### EXISTING:

<table>
<thead>
<tr>
<th>Subject Abbreviation</th>
<th>EE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Number</td>
<td>661</td>
</tr>
<tr>
<td>Proposed Title</td>
<td>Computer Vision</td>
</tr>
<tr>
<td>Variable Title</td>
<td>Yes</td>
</tr>
<tr>
<td>Abbreviated Title</td>
<td>Computer Vision</td>
</tr>
</tbody>
</table>

### PROPOSED:

<table>
<thead>
<tr>
<th>Subject Abbreviation</th>
<th>EE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Number</td>
<td>661</td>
</tr>
</tbody>
</table>

### SEMESTERS OFFERED

- Summer
- Fall
- Ag Winter
- Spring

### CREDIT TYPE

1. Fixed Credit: Cr. Hrs. 3
2. Variable Credit Range: Minimum Cr. Hrs. (Check One) To Maximum Cr. Hrs. Or
3. Equivalent Credit: Yes No
4. Thesis Credit: Yes No

### COURSE ATTRIBUTES: Check All That Apply.

1. Pass/Not Pass Only
2. Repeatable for Credit
3. Available for Credit by Examination
4. Designator Required
5. Special Fees
6. Approval Required for Enrollment Department Instructor

### CAMPUS(ES) INVOLVED:

- Calumet
- Fort Wayne
- Indianapolis
- North Central
- West Lafayette
- Off Campus

### COURSE DESCRIPTION (PREREQUISITES INCLUDED):

Autonomous or semi-autonomous systems endowed with visual perception. Vision psychophysics, image representation, edge detection, region-based segmentation, camera modeling, stereo vision, pose calculation, object recognition, optical flows, visual tracking, color vision, and computational geometry. Implementation of vision algorithms through programming assignments.

### SIGNATURES:

- Calumet Undergrad Curriculum Committee
- Calumet Department Head
- Calumet School Dean
- Fort Wayne Department Head
- Fort Wayne School Dean
- Fort Wayne Chancellor
- Indianapolis Department Head
- Indianapolis School Dean
- Undergrad Curriculum Committee
- North Central Department Head
- North Central Vice Chancellor
- Date Approved by Graduate Council
- Lafayette Department Head
- West Lafayette School Dean
- Graduate Council Secretary
- West Lafayette Registrar

**OFFICE OF THE REGISTRAR**

Note: Handwritten notes indicate approval dates and signatures.
TO: The Engineering Faculty  
FROM: The Faculty of the School of Electrical and Computer Engineering  
RE: Changes in EE 661

The faculty of the School of Electrical and Computer Engineering has approved the following course changes. This action is now submitted to the Engineering Faculty with a recommendation for approval.

From:

EE 661  Computer Vision  
Sem. 2. Class 3, cr. 3.  
Prerequisite: EE 570 or consent of instructor

This course deals with how an autonomous or a semi-autonomous system can be endowed with visual perception. The issues discussed include: Sampling from a Topological Standpoint; Grouping Processes; Data Structures, especially hierarchical types such as pyramids, quadtrees, octrees, etc; Graphic Theoretic Methods for structural description and consistent labeling; issues in 3-D Vision such as object representation by Gaussian Spheres, Generalized Cylinders, etc.

To:

EE 661  Computer Vision  
Sem. 2. Class 3, cr. 3.  

Autonomous or semi-autonomous systems endowed with visual perception. Vision psychophysics, image representation, edge detection, region-based segmentation, camera modeling, stereo vision, pose calculation, object recognition, optical flows, visual tracking, color vision, and computational geometry. Implementation of vision algorithms through programming assignments.

Reason: The proposed course description and removal of prerequisite better reflect the updated content of the course.

APPROVED FOR THE FACULTY  
OF THE SCHOOLS OF ENGINEERING  
BY THE COMMITTEE ON  
FACULTY RELATIONS

 CFR Minutes  #949  
Date  9/5/01  
Chairman CFR  C. D. S. T. h e t t i e n   

W. Kent Fuchs  
Professor and Head