

To: The Faculty of the College of Engineering

From: The Faculty of the School of Electrical and Computer Engineering

RE: Deletion of ECE 35700, ECE 40700, ECE 42500, ECE 43400, ECE 44500, ECE 48600

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

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**ECE 35700 VLSI Chip Design Laboratory**

Sem. 1, 2 Cr. 1.00

Introduction to standard cell design of VLSI digital circuits. Laboratory experiments using commercial grade CAD tools for VHDL based design, schematic based logic entry, logic and VHDL simulation, automatic placement and routing, timing analysis, and testing

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**ECE 40700 Semiconductor Measurements Laboratory**

Sem. 1, 2 Cr. 1.00

Experiments incorporating state-of-the-art equipment and measurement techniques are performed to collect electrical characteristics exhibited by a representative set of semiconductor devices. The measured characteristics are subsequently used to deduce information about the internal nature and/or operation of semiconductor devices.

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**ECE 42500 Electric Machines**

Sem. 1 Cr. 2.00

A study of the energy conversion principles and operating behavior of ac and dc electric machines. Considers engineering aspects of practical machines. Examines industrial methods of starting and controlling these machines.

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**ECE 43400 Power Engineering Laboratory**

Sem. 1 Cr. 1.00

The laboratory consists of experiments on power measurement techniques, power flow control, and on common components, such as transformers, rectifiers, induction and synchronous machines.

Approved for the faculty of the Schools  
of Engineering by the Engineering  
Curriculum Committee

ECC Minutes 8 Date 11/20/15  
Chairman ECC [Signature]

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**ECE 44500 Modern Filter Design**

Sem. 1 Cr. 0 or 4.00

Solution to the filtering approximation problem. Transfer function scaling and type transformations. Effects of A/D and D/A conversion. Digital filter design methods. Active filter design using operational amplifiers. Operation and design of switched capacitor filters. A laboratory for the construction of digital filters is provided.

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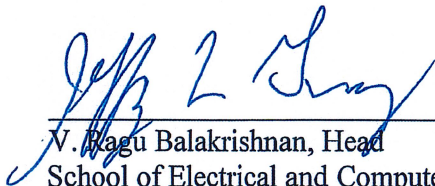
**ECE 48600 Sensor-Based Robot Control Laboratory**

Sem. 1 Cr. 2.00

Laboratory experiments and projects illustrate the techniques and concepts of integrating sensory information into a real-time, computer-controlled robotic system. Topics include manipulator kinematics, simple computer vision techniques, searching & game trees, and system communications.

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**REASON:** To remove outdated course listings from the course catalog. None have been offered in the last five years. ECE 35700 was last offered in spring 2001. ECE40700 was last taught in fall 2009. ECE 42500 last had students in 2004, but was offered in fall 2006 and cancelled. ECE 43400 was last offered in fall 1999. ECE44500 last had students in fall 2007, but was offered in fall 2009 and cancelled. ECE 48600 was last offered in spring 1999. These courses are not to be used for future registrations.



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V. Ragu Balakrishnan, Head  
School of Electrical and Computer  
Engineering

**PURDUE UNIVERSITY**  
REQUEST FOR ADDITION, EXPIRATION,  
OR REVISION OF AN UNDERGRADUATE COURSE  
(10000-40000 LEVEL)

DEPARTMENT School of Electrical and Computer Engineering EFFECTIVE SESSION 201620

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

<input type="checkbox"/> 1. New course with supporting documents	<input type="checkbox"/> 7. Change in course attributes (department head signature only)
<input type="checkbox"/> 2. Add existing course offered at another campus	<input type="checkbox"/> 8. Change in instructional hours
<input checked="" type="checkbox"/> 3. Expiration of a course	<input type="checkbox"/> 9. Change in course description
<input type="checkbox"/> 4. Change in course number	<input type="checkbox"/> 10. Change in course requisites
<input type="checkbox"/> 5. Change in course title	<input type="checkbox"/> 11. Change in semesters offered (department head signature only)
<input type="checkbox"/> 6. Change in course credit/type	<input type="checkbox"/> 12. Transfer from one department to another

<b>PROPOSED:</b>	<b>EXISTING:</b>	<b>TERMS OFFERED</b> Check All That Apply:
Subject Abbreviation <input type="text"/>	Subject Abbreviation <u>ECE</u>	<input checked="" type="checkbox"/> Summer <input checked="" type="checkbox"/> Fall <input checked="" type="checkbox"/> Spring
Course Number <input type="text"/>	Course Number <u>36700</u>	<b>CAMPUS(ES) INVOLVED</b>
Long Title <input type="text"/>		<input type="checkbox"/> Calumet <input type="checkbox"/> N. Central
Short Title <input type="text"/>		<input type="checkbox"/> Cont Ed <input type="checkbox"/> Tech Statewide
		<input type="checkbox"/> Ft. Wayne <input checked="" type="checkbox"/> W. Lafayette
		<input type="checkbox"/> Indianapolis

Abbreviated title will be entered by the Office of the Registrar if omitted. (30 CHARACTERS ONLY)

<b>CREDIT TYPE</b>	<b>COURSE ATTRIBUTES: Check All That Apply</b>
1. Fixed Credit: Cr. Hrs. <input type="text"/>	1. Pass/Not Pass Only <input type="checkbox"/>
2. Variable Credit Range: <input type="text"/>	2. Satisfactory/Unsatisfactory Only <input type="checkbox"/>
Minimum Cr. Hrs. <input type="text"/>	3. Repeatable <input type="checkbox"/>
(Check One) To <input type="checkbox"/> Or <input type="checkbox"/>	Maximum Repeatable Credit: <input type="text"/>
Maximum Cr. Hrs. <input type="text"/>	4. Credit by Examination <input type="checkbox"/>
3. Equivalent Credit: Yes <input type="checkbox"/> No <input type="checkbox"/>	5. Fees <input type="checkbox"/> Coop <input type="checkbox"/> Lab <input type="checkbox"/> Rate Request <input type="checkbox"/>
	6 Registration Approval Type <input type="checkbox"/>
	7 Variable Title <input type="checkbox"/>
	8 Honors <input type="checkbox"/>
	9 Full Time Privilege <input type="checkbox"/>
	10 Off Campus Experience <input type="checkbox"/>
	Include comment to explain fee <input type="text"/>

Schedule Type	Minutes Per Mig	Meetings Per Week	Weeks Offered	% of Credit Allocated	Cross-Listed Courses
Lecture					
Recitation					
Presentation					
Laboratory					
Lab Prep					
Studio					
Distance					
Clinic					
Experiential					
Research					
Ind. Study					
Pract/Observ					

**COURSE DESCRIPTION (INCLUDE REQUISITES/RESTRICTIONS):**  
\*\*\*\*\*EXPIRE PWL ONLY\*\*\*\*\*

**\*COURSE LEARNING OUTCOMES**

Calumet Department Head _____	Date _____	Calumet School Dean _____	Date _____
Fort Wayne Department Head _____	Date _____	Fort Wayne School Dean _____	Date _____
Indianapolis Department Head _____	Date _____	Indianapolis School Dean _____	Date _____
North Central Faculty Senate Chair _____	Date _____	Vice Chancellor for Academic Affairs _____	Date _____
<i>[Signature]</i>	9/24/15	<i>[Signature]</i>	11/20/15
West Lafayette Department Head _____	Date _____	West Lafayette College/School Dean _____	Date _____
		West Lafayette Registrar _____	Date _____

**PURDUE UNIVERSITY**  
REQUEST FOR ADDITION, EXPIRATION,  
OR REVISION OF AN UNDERGRADUATE COURSE  
(10000-40000 LEVEL)

DEPARTMENT School of Electrical and Computer Engineering EFFECTIVE SESSION 201620

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<input type="checkbox"/> 4. Change in course number	<input type="checkbox"/> 10. Change in course requisites
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<input type="checkbox"/> 6. Change in course credit/type	<input type="checkbox"/> 12. Transfer from one department to another

<b>PROPOSED:</b>	<b>EXISTING:</b>	<b>TERMS OFFERED</b> Check All That Apply:
Subject Abbreviation <input type="text"/>	Subject Abbreviation <u>ECE</u>	<input checked="" type="checkbox"/> Summer <input checked="" type="checkbox"/> Fall <input checked="" type="checkbox"/> Spring
Course Number <input type="text"/>	Course Number <u>40700</u>	<b>CAMPUS(ES) INVOLVED</b>
Long Title <input type="text"/>		<input type="checkbox"/> Calumet <input type="checkbox"/> N. Central
Short Title <input type="text"/>		<input type="checkbox"/> Cont Ed <input type="checkbox"/> Tech Statewide
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<b>CREDIT TYPE</b>	<b>COURSE ATTRIBUTES: Check All That Apply</b>
1. Fixed Credit: Cr. Hrs. <input type="text"/>	1. Pass/Not Pass Only <input type="checkbox"/>
2. Variable Credit Range: <input type="text"/>	2. Satisfactory/Unsatisfactory Only <input type="checkbox"/>
Minimum Cr. Hrs (Check One) To <input type="checkbox"/> Or <input type="checkbox"/>	3. Repeatable <input type="checkbox"/>
Maximum Cr. Hrs <input type="text"/>	Maximum Repeatable Credit: <input type="text"/>
3. Equivalent Credit: Yes <input type="checkbox"/> No <input type="checkbox"/>	4. Credit by Examination <input type="checkbox"/>
	5. Fees <input type="checkbox"/> Coop <input type="checkbox"/> Lab <input type="checkbox"/> Rate Request <input type="checkbox"/>
	6 Registration Approval Type <input type="checkbox"/> Department <input type="checkbox"/> Instructor <input type="checkbox"/>
	7 Variable Title <input type="checkbox"/>
	8 Honors <input type="checkbox"/>
	9 Full Time Privilege <input type="checkbox"/>
	10 Off Campus Experience <input type="checkbox"/>
	Include comment to explain fee

Schedule Type	Minutes Per Mfg	Meetings Per Week	Weeks Offered	% of Credit Allocated	Cross-Listed Courses
Lecture					
Recitation					
Presentation					
Laboratory					
Lab Prep					
Studio					
Distance					
Clinic					
Experiential					
Research					
Ind. Study					
Pract/Observ					

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Indianapolis Department Head _____ Date _____	Indianapolis School Dean _____ Date _____
North Central Faculty Senate Chair _____ Date _____	Vice Chancellor for Academic Affairs _____ Date _____
<u>[Signature]</u> _____ Date <u>9/24/15</u>	<u>[Signature]</u> _____ Date <u>11/20/15</u>
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<input type="checkbox"/> 6. Change in course credit/type	<input type="checkbox"/> 12. Transfer from one department to another

<b>PROPOSED:</b>	<b>EXISTING:</b>	<b>TERMS OFFERED</b> Check All That Apply:
Subject Abbreviation <input type="text"/>	Subject Abbreviation <u>ECE</u>	<input checked="" type="checkbox"/> Summer <input checked="" type="checkbox"/> Fall <input checked="" type="checkbox"/> Spring
Course Number <input type="text"/>	Course Number <u>42500</u>	<b>CAMPUS(ES) INVOLVED</b>
Long Title <input type="text"/>		<input type="checkbox"/> Calumet <input type="checkbox"/> N. Central
Short Title <input type="text"/>		<input type="checkbox"/> Cont Ed <input type="checkbox"/> Tech Statewide
Abbreviated title will be entered by the Office of the Registrar if omitted. (30 CHARACTERS ONLY)		<input type="checkbox"/> Ft. Wayne <input checked="" type="checkbox"/> W. Lafayette
		<input type="checkbox"/> Indianapolis

<b>CREDIT TYPE</b>	<b>COURSE ATTRIBUTES: Check All That Apply</b>
1. Fixed Credit: Cr. Hrs. <input type="text"/>	1. Pass/Not Pass Only <input type="checkbox"/>
2. Variable Credit Range: <input type="text"/>	2. Satisfactory/Unsatisfactory Only <input type="checkbox"/>
Minimum Cr. Hrs. <input type="text"/>	3. Repeatable <input type="checkbox"/>
(Check One) To <input type="checkbox"/> Or <input type="checkbox"/>	Maximum Repeatable Credit: <input type="text"/>
Maximum Cr. Hrs. <input type="text"/>	4. Credit by Examination <input type="checkbox"/>
3. Equivalent Credit: Yes <input type="checkbox"/> No <input type="checkbox"/>	5. Fees <input type="checkbox"/> Coop <input type="checkbox"/> Lab <input type="checkbox"/> Rate Request <input type="checkbox"/>
	6 Registration Approval Type <input type="checkbox"/>
	Department <input type="checkbox"/> Instructor <input type="checkbox"/>
	7 Variable Title <input type="checkbox"/>
	8 Honors <input type="checkbox"/>
	9 Full Time Privilege <input type="checkbox"/>
	10 Off Campus Experience <input type="checkbox"/>
	Include comment to explain fee <input type="text"/>

Schedule Type	Minutes Per Mfg	Meelings Per Week	Weeks Offered	% of Credit Allocated	Cross-Listed Courses
Lecture					
Recitation					
Presentation					
Laboratory					
Lab Prep					
Studio					
Distance					
Clinic					
Experiential					
Research					
Ind. Study					
Pract/Observ					

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North Central Faculty Senate Chair _____ Date _____	Vice Chancellor, for Academic Affairs _____ Date _____
<i>[Signature]</i> _____ Date <u>9/24/15</u>	<i>[Signature]</i> _____ Date <u>11/20/15</u>
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- |   |   |
|---|---|
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| <input checked="" type="checkbox"/> 3. Expiration of a course             | <input type="checkbox"/> 9. Change in course description                                  |
| <input type="checkbox"/> 4. Change in course number                       | <input type="checkbox"/> 10. Change in course requisites                                  |
| <input type="checkbox"/> 5. Change in course title                        | <input type="checkbox"/> 11. Change in semesters offered (department head signature only) |
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Subject Abbreviation	<input type="text"/>	Subject Abbreviation	<u>ECE</u>	<input checked="" type="checkbox"/> Summer	<input checked="" type="checkbox"/> Fall <input checked="" type="checkbox"/> Spring
Course Number	<input type="text"/>	Course Number	<u>43400</u>	<b>CAMPUS(ES) INVOLVED</b>	
Long Title	<input type="text"/>			<input type="checkbox"/> Calumet	<input type="checkbox"/> N. Central
Short Title	<input type="text"/>			<input type="checkbox"/> Cont Ed	<input type="checkbox"/> Tech Statewide
				<input type="checkbox"/> Ft. Wayne	<input checked="" type="checkbox"/> W. Lafayette
				<input type="checkbox"/> Indianapolis	

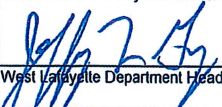

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1. Fixed Credit: Cr. Hrs.	<input type="text"/>	1. Pass/Not Pass Only	<input type="checkbox"/>	6 Registration Approval Type	<input type="checkbox"/>
2. Variable Credit Range:	<input type="text"/>	2. Satisfactory/Unsatisfactory Only	<input type="checkbox"/>	Department	<input type="checkbox"/>
Minimum Cr. Hrs	<input type="text"/>	3. Repeatable	<input type="checkbox"/>	7 Variable Title	<input type="checkbox"/>
(Check One) To <input type="checkbox"/> Or <input type="checkbox"/>		Maximum Repeatable Credit:	<input type="text"/>	8 Honors	<input type="checkbox"/>
Maximum Cr. Hrs	<input type="text"/>	4. Credit by Examination	<input type="checkbox"/>	9 Full Time Privilege	<input type="checkbox"/>
3. Equivalent Credit: Yes <input type="checkbox"/> No <input type="checkbox"/>		5. Fees <input type="checkbox"/> Coop <input type="checkbox"/> Lab <input type="checkbox"/> Rate Request	<input type="checkbox"/>	10 Off Campus Experience	<input type="checkbox"/>

Schedule Type	Minutes Per Mig	Meetings Per Week	Weeks Offered	% of Credit Allocated	Cross-Listed Courses
Lecture					
Recitation					
Presentation					
Laboratory					
Lab Prep					
Studio					
Distance					
Clinic					
Experiential					
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Pract/Observ					

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\*\*\*\*\*EXPIRE PWL ONLY\*\*\*\*\*

**\*COURSE LEARNING OUTCOMES**

Calumet Department Head	Date	Calumet School Dean	Date
Fort Wayne Department Head	Date	Fort Wayne School Dean	Date
Indianapolis Department Head	Date	Indianapolis School Dean	Date
North Central Faculty Senate Chair	Date	Vice Chancellor for Academic Affairs	Date
	<u>9/24/15</u>		<u>11/20/15</u>
West Lafayette Department Head	Date	West Lafayette College/School Dean	Date
		West Lafayette Registrar	Date

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DEPARTMENT School of Electrical and Computer Engineering EFFECTIVE SESSION 201620

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- |   |   |
|---|---|
| <input type="checkbox"/> 1. New course with supporting documents          | <input type="checkbox"/> 7. Change in course attributes (department head signature only)  |
| <input type="checkbox"/> 2. Add existing course offered at another campus | <input type="checkbox"/> 8. Change in instructional hours                                 |
| <input checked="" type="checkbox"/> 3. Expiration of a course             | <input type="checkbox"/> 9. Change in course description                                  |
| <input type="checkbox"/> 4. Change in course number                       | <input type="checkbox"/> 10. Change in course requisites                                  |
| <input type="checkbox"/> 5. Change in course title                        | <input type="checkbox"/> 11. Change in semesters offered (department head signature only) |
| <input type="checkbox"/> 6. Change in course credit/type                  | <input type="checkbox"/> 12. Transfer from one department to another                      |

**PROPOSED:** Subject Abbreviation  Course Number  Long Title  Short Title

**EXISTING:** Subject Abbreviation ECE Course Number 445.00

**TERMS OFFERED**  
Check All That Apply:  
 Summer  Fall  Spring

**CAMPUS(ES) INVOLVED**

<input type="checkbox"/> Calumet	<input type="checkbox"/> N. Central
<input type="checkbox"/> Cont Ed	<input type="checkbox"/> Tech Statewide
<input type="checkbox"/> Ft. Wayne	<input checked="" type="checkbox"/> W. Lafayette
<input type="checkbox"/> Indianapolis	

Abbreviated title will be entered by the Office of the Registrar if omitted. (30 CHARACTERS ONLY)

**CREDIT TYPE**

1. Fixed Credit: Cr. Hrs.

2. Variable Credit Range:   
Minimum Cr. Hrs   
(Check One) To  Or   
Maximum Cr. Hrs

3. Equivalent Credit: Yes  No

**COURSE ATTRIBUTES: Check All That Apply**

<input type="checkbox"/> 1. Pass/Not Pass Only	<input type="checkbox"/> 6 Registration Approval Type	<input type="checkbox"/> Instructor
<input type="checkbox"/> 2. Satisfactory/Unsatisfactory Only	<input type="checkbox"/> Department	<input type="checkbox"/>
<input type="checkbox"/> 3. Repeatable	<input type="checkbox"/> 7 Variable Title	<input type="checkbox"/>
Maximum Repeatable Credit: <input type="text"/>	<input type="checkbox"/> 8 Honors	<input type="checkbox"/>
<input type="checkbox"/> 4. Credit by Examination	<input type="checkbox"/> 9 Full Time Privilege	<input type="checkbox"/>
<input type="checkbox"/> 5. Fees <input type="checkbox"/> Coop <input type="checkbox"/> Lab <input type="checkbox"/> Rate Request	<input type="checkbox"/> 10 Off Campus Experience	<input type="checkbox"/>

Include comment to explain fee

Schedule Type	Minutes Per Mtg	Meetings Per Week	Weeks Offered	% of Credit Allocated
Lecture				
Recitation				
Presentation				
Laboratory				
Lab Prep				
Studio				
Distance				
Clinic				
Experiential				
Research				
Ind. Study				
Pract/Observ				

**Cross-Listed Courses**


**COURSE DESCRIPTION (INCLUDE REQUISITES/RESTRICTIONS):**  
\*\*\*\*\*EXPIRE PWL ONLY\*\*\*\*\*

**\*COURSE LEARNING OUTCOMES**

Calumet Department Head _____ Date _____	Calumet School Dean _____ Date _____
Fort Wayne Department Head _____ Date _____	Fort Wayne School Dean _____ Date _____
Indianapolis Department Head _____ Date _____	Indianapolis School Dean _____ Date _____
North Central Faculty Senate Chair _____ Date _____	Vice Chancellor for Academic Affairs _____ Date _____
<i>[Signature]</i> _____ Date <u>9/22/15</u>	<i>[Signature]</i> _____ Date <u>11/29/15</u>
West Lafayette Department Head _____ Date _____	West Lafayette College/School Dean _____ Date _____

West Lafayette Registrar \_\_\_\_\_ Date \_\_\_\_\_

**PURDUE UNIVERSITY**  
REQUEST FOR ADDITION, EXPIRATION,  
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|---|---|
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| <input type="checkbox"/> 4. Change in course number                       | <input type="checkbox"/> 10. Change in course requisites                                  |
| <input type="checkbox"/> 5. Change in course title                        | <input type="checkbox"/> 11. Change in semesters offered (department head signature only) |
| <input type="checkbox"/> 6. Change in course credit/type                  | <input type="checkbox"/> 12. Transfer from one department to another                      |

**PROPOSED:**

Subject Abbreviation

Course Number

Long Title

Short Title

Abbreviated title will be entered by the Office of the Registrar if omitted. (30 CHARACTERS ONLY)

**EXISTING:**

Subject Abbreviation ECE

Course Number 48600

**TERMS OFFERED**

Check All That Apply:

Summer  Fall  Spring

**CAMPUS(ES) INVOLVED**

- |                                       |  |
|---------------------------------------|--|
| <input type="checkbox"/> Calumet      | <input type="checkbox"/> N. Central              |
| <input type="checkbox"/> Cont Ed      | <input type="checkbox"/> Tech Statewide          |
| <input type="checkbox"/> Ft. Wayne    | <input checked="" type="checkbox"/> W. Lafayette |
| <input type="checkbox"/> Indianapolis |  |

**CREDIT TYPE**

1. Fixed Credit: Cr. Hrs.

2. Variable Credit Range:

Minimum Cr. Hrs.   
(Check One) To  Or

Maximum Cr. Hrs.

3. Equivalent Credit: Yes  No

**COURSE ATTRIBUTES: Check All That Apply**

- |  |  |                                     |
|--|--|-------------------------------------|
| <input type="checkbox"/> 1. Pass/Not Pass Only   | <input type="checkbox"/> 6 Registration Approval Type        | <input type="checkbox"/> Instructor |
| <input type="checkbox"/> 2. Satisfactory/Unsatisfactory Only   | <input type="checkbox"/> Department <input type="checkbox"/> | <input type="checkbox"/>            |
| <input type="checkbox"/> 3. Repeatable   | <input type="checkbox"/> 7 Variable Title                    | <input type="checkbox"/>            |
| Maximum Repeatable Credit: <input type="text"/>  | <input type="checkbox"/> 8 Honors                            | <input type="checkbox"/>            |
| <input type="checkbox"/> 4. Credit by Examination  | <input type="checkbox"/> 9 Full Time Privilege               | <input type="checkbox"/>            |
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Include comment to explain fee

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Pract/Observ				

**Cross-Listed Courses**


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\*\*\*\*\*EXPIRE PWL ONLY\*\*\*\*\*

**\*COURSE LEARNING OUTCOMES**

Calumet Department Head \_\_\_\_\_ Date \_\_\_\_\_ Calumet School Dean \_\_\_\_\_ Date \_\_\_\_\_

Fort Wayne Department Head \_\_\_\_\_ Date \_\_\_\_\_ Fort Wayne School Dean \_\_\_\_\_ Date \_\_\_\_\_

Indianapolis Department Head \_\_\_\_\_ Date \_\_\_\_\_ Indianapolis School Dean \_\_\_\_\_ Date \_\_\_\_\_

North Central Faculty Senate Chair \_\_\_\_\_ Date \_\_\_\_\_ Vice Chancellor for Academic Affairs \_\_\_\_\_ Date \_\_\_\_\_

West Lafayette Department Head [Signature] 9/24/15 Date \_\_\_\_\_ West Lafayette College/School Dean [Signature] 11/20/15 Date \_\_\_\_\_ West Lafayette Registrar \_\_\_\_\_ Date \_\_\_\_\_