### PURDUE UNIVERSITY
REQUEST FOR ADDITION, DELETION, OR REVISION OF A COURSE

**DEPARTMENT:** Electrical & Computer Engineering

**DATE SUBMITTED:** 10-05-2000  
**DATE EFFECTIVE:** 8/20/2001

**GRADUATE COUNCIL DOCUMENT NO.:**

**SCHOOL DOCUMENT NO.:** EFD79-0X

---

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

<table>
<thead>
<tr>
<th>PURPOSE</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Deletion of a course</td>
<td></td>
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<tr>
<td>2. New course with supporting documents</td>
<td></td>
</tr>
<tr>
<td>3. Add existing course offered at another campus</td>
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<td></td>
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<tr>
<td>7. Change in course title</td>
<td></td>
</tr>
<tr>
<td>8. Change in semesters offered</td>
<td></td>
</tr>
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<td></td>
</tr>
<tr>
<td>14. Transfer of course from one dept. to another</td>
<td></td>
</tr>
</tbody>
</table>

---

**EXISTING:**

- **Subject Abbreviation:** EE
- **Course Number:** 559
- **Proposed Title:** MOS VLSI Design
- **Abbreviated Title:** MOS VLSI Design

**PROPOSED:**

- **Subject Abbreviation:**
- **Course Number:**
- **Proposed Title:**
- **Abbreviated Title:**

**SEMESTERS OFFERED**

- **Check All That Apply:**
  - Summer
  - Fall
  - Fall
  - Summer

---

**CROSS LISTED COURSES**

<table>
<thead>
<tr>
<th>Instructional Type</th>
<th>Class Hours</th>
<th>FTE</th>
<th>Instructional Type</th>
<th>Class Hours</th>
<th>FTE</th>
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<tr>
<td>Laboratory</td>
<td></td>
<td></td>
<td>Lab. Prep.</td>
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**COURSE DESCRIPTION (PREREQUISITES INCLUDED):**

Sem. 1 and 2. Class 3, cr. 3. Prerequisite: EE 365.

---

**CAMPUSES(ES) INVOLVED**

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

---

**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

---

**INSTRUCTIONAL**

- **Type**
- **FTE**
- **Instructional**
- **Type**
- **FTE**
- **Instructional**
- **Type**
- **FTE**

---

**UNIVERSITY COMMITTEE:**

- Calumet Undergrad Curriculum Committee
- Calumet Department Head
- Fort Wayne Department Head
- Fort Wayne School Dean
- Indianapolis Department Head
- Indianapolis School Dean
- North Central Department Head
- North Central Vice Chancellor
- West Lafayette Department Head
- West Lafayette School Dean
- Graduate Area Committee Convener
- Graduate Dean

---

**OFFICE OF THE REGISTRAR**
**PURDUE UNIVERSITY**

**REQUEST FOR ADDITION, DELETION, OR REVISION OF A COURSE**

**SCHOOL DOCUMENT NO. EFD79-0C**

**GRADUATE COUNCIL DOCUMENT NO.**

**DEPARTMENT** Electrical & Computer Engineering

**DATE SUBMITTED** 10-05-2000

**DATE EFFECTIVE** 8/20/2001

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<tr>
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**EXISTING:**

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<td>Course Number</td>
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<tr>
<td>Proposed Title</td>
<td>Software Engineering Methodology</td>
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<td>Variable Title</td>
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**PROPOSED:**

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<tr>
<td>Course Number</td>
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<tr>
<td>Proposed Title</td>
<td>Software Engineering Methodology</td>
</tr>
<tr>
<td>Variable Title</td>
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**SEMESTERS OFFERED**

* Every 4th Semester.

Check All That Apply.

<table>
<thead>
<tr>
<th>Summer</th>
<th>Fall</th>
<th>Ag Winter</th>
<th>Spring</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>✔</td>
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<td></td>
</tr>
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</table>

**COURSE DESCRIPTION (PREREQUISITES INCLUDED):**

Sem. 1, Class 3, cr. 3. (Offered in alternate years)

---

**INSTRUCTORS**

Calumet Undergrad Curriculum Committee

Calumet Department Head

Fort Wayne Department Head

Fort Wayne School Dean

Indianapolis Department Head

Indianapolis School Dean

North Central Department Head

North Central Vice Chancellor

West Lafayette Department Head

West Lafayette School Dean

Graduate Area Committee Convener

Graduate Dean

---

**OFFICE OF THE REGISTRAR**

**Calumet School Dean**

**Date**

**Fort Wayne Chancellor**

**Date**

**Appr. for Faculty**

**C.D. Sutton, Chair**

**Date**

**Undergrad Curriculum Committee**

**Date**

**Date Approved by Graduate Council**

**Date**

**Graduate Council Secretary**

**Date**

**West Lafayette Registrar**

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

### PURPOSE
- 8. Change in semesters offered
- 9. Change in course credit/type
- 10. Change in course attributes
- 11. Change in instructional hours
- 12. Change in prerequisites
- 13. Change in description of course content
- 14. Transfer of course from one dept. to another

### EXISTING:

**Subject Abbreviation:** EE  
**Course Number:** 600  
**Proposed Title:** Random Variables and Signals  
**Proposed Title Abbreviation:** Random Variables

### PROPOSED:

- **Subject Abbreviation:**  
- **Course Number:**  
- **Proposed Title:** Random Variables  
- **Proposed Title Abbreviation:** Random Variables

**Abbreviated title will be entered by the Office of the Registrar if omitted. (22 characters only)**

### SEMESTERS OFFERED
- **Check All That Apply:**
  - Summer
  - Fall
  - Spring
  - Winter

### CROSS LISTED COURSES

<table>
<thead>
<tr>
<th>Instructional Type</th>
<th>Primary</th>
<th>Secondary</th>
<th>Laboratory</th>
<th>Lab. Prep.</th>
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</thead>
<tbody>
<tr>
<td>Class Hours</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FTE</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### CREDIT TYPE

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

### COURSE ATTRIBUTES

- **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**

### INSTRUCTORS

<table>
<thead>
<tr>
<th>Instructor Type</th>
<th>Instructional Type</th>
<th>Class Hours</th>
<th>FTE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Primary</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
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</tr>
<tr>
<td>Laboratory</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Lab. Prep.</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

### CAMPUS(ES) INVOLVED

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

### COURSE DESCRIPTION (PREREQUISITES INCLUDED):

**Prerequisites:** Graduate Standing.

---

**Signature Chain:**
- Calumet Undergrad Curriculum Committee  
- Calumet Department Head  
- Calumet School Dean
- Fort Wayne Department Head  
- Fort Wayne School Dean  
- Fort Wayne Chancellor  
- Appr. for Faculty C.D. Sutton, Chair  
- C.D. Sutton, Chair  
- 9/5/01
- Indianapolis Department Head  
- Indianapolis School Dean
- Undergrad Curriculum Committee  
- Date
- North Central Department Head  
- North Central Vice Chancellor  
- Date
- Date Approved by Graduate Council
- West Lafayette Department Head  
- West Lafayette School Dean  
- West Lafayette Registrar  
- Graduate Council Secretary  
- Date
- Date
- Office of the Registrar
INSTRUCTIONS: Please check the items below which describe the purpose of this request.

**PURPOSE**

- Deletion of a course
- New course with supporting documents
- Add existing course offered at another campus
- Change in course number at same level
- Downgrading of course level
- Upgrading of course level
- Change in course title
- Change in semesters offered
- Change in course credit type
- Change in course attributes
- Change in instructional hours
- Change in prerequisites
- Change in description of course content
- Transfer of course from one dept. to another

**EXISTING:**

Subject Abbreviation: EE
Course Number: 602
Proposed Title: Lumped System Theory
Proposed Course Number: 602

**PROPOSED:**

Subject Abbreviation: EE
Course Number: 602
Proposed Title: Lumped System Theory
Proposed Course Number: 602

**SEMESTERS OFFERED:**

- Summer
- Fall
- Winter
- Spring

**CROSS LISTED COURSES**

<table>
<thead>
<tr>
<th>Instructional Type</th>
<th>FTE</th>
<th>Instructional Class</th>
<th>FTE</th>
<th>Instructional Type</th>
<th>FTE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Primary</td>
<td></td>
<td>Auto-tutorial</td>
<td></td>
<td>Thesis</td>
<td></td>
</tr>
<tr>
<td>Secondary</td>
<td></td>
<td>Ind. Study</td>
<td></td>
<td>Observation</td>
<td></td>
</tr>
<tr>
<td>Laboratory</td>
<td></td>
<td>Clinic</td>
<td></td>
<td>Math Based</td>
<td></td>
</tr>
<tr>
<td>Lab. Prep.</td>
<td></td>
<td>Experiential</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**COURSE DESCRIPTION (PREREQUISITES INCLUDED):**

Prerequisites: Graduate Standing and one of Prerequisites: MA 511.

**CAMPUS(ES) INVOLVED:**

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

**OFFICE OF THE REGISTRAR**
DEPARTMENT: Electrical & Computer Engineering

DATE SUBMITTED: 10-05-2000
DATE EFFECTIVE: 8/29/2001

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

PURPOSE:
1. Deletion of a course
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11. Change in instructional hours
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13. Change in description of course content
14. Transfer of course from one dept. to another

EXISTING:
Subject Abbreviation: EE
Course Number: 604
Proposed Title: Electromagnetic Field Theory
Variable Title: Yes
Abbreviated Title: Electromag Field Theo

PROPOSED:
Subject Abbreviation
Course Number

SEMESTERS OFFERED:
*Sem 2 Offered in Alternate Years

CROSS LISTED COURSES

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
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

INSTRUCTIONAL Type
Primary Secondary Laboratory Lab. Prep.

FTE
Auto-tutorial Ind. Study Clinic Experiential

CLASS Type
Instructional Class FTE Instructional Class FTE Instructional Class FTE

Type
Thesis Observation Math Based

CAMPUS(ES) INVOLVED
Calumet Fort Wayne Indianapolis North Central West Lafayette Off Campus

COURSE DESCRIPTION (PREREQUISITES INCLUDED):
Prerequisites: Graduate Standing.

Calumet Undergrad Curriculum Committee Date
Calumet Department Head Date
Calumet School Dean Date

Fort Wayne Department Head Date
Fort Wayne School Dean Date
Fort Wayne Chancellor Date
Appr. for Faculty C.D. Sutton, Chair #949 9/5/01

Indianapolis Department Head Date
Indianapolis School Dean Date
Undergrad Curriculum Committee Date

North Central Department Head Date
North Central Vice Chancellor Date
Date Approved by Graduate Council

West Lafayette Department Head Date
West Lafayette School Dean Date
Graduate Council Secretary Date

Graduate Area Committee Convener Date
Graduate Dean Date
West Lafayette Registrar Date

OFFICE OF THE REGISTRAR
DEPARTMENT: Electrical & Computer Engineering

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

PURPOSE:
1. Deletion of a course
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10. Change in course attributes
11. Change in instructional hours
12. Change in prerequisites
13. Change in description of course content
14. Transfer of course from one dept. to another

EXISTING:
Subject Abbreviation: EE
Course Number: 606
Proposed Title: Solid-State Devices
Variable Title: Yes
Abbreviated Title: Solid-State Devices

PROPOSED:
Subject Abbreviation
Course Number
Proposed Title: Solid-State Devices
Variable Title: Yes
Abbreviated Title: Solid-State Devices

CROSS LISTED COURSES

CREDIT TYPE
1. Fixed Credit: Cr. Hrs.
2. Variable Credit Range:
   Minimum Cr. Hrs.
   (Check One) To
   Maximum Cr. Hrs.
3. Equivalent Credit: Yes
4. Thesis Credit: Yes

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

INSTRUCTIONAL
Type
Primary
Secondary
Laboratory
Lab. Prep.

FTE

Type
Auto-tutorial
Ind. Study
Clinic
Experiential

Class

Hrs.

Type
Thesis
Observation
Malls Based

Class

Hrs.

FTE

CAMPUS(ES) INVOLVED

Calumet
Fort Wayne
Indianapolis
North Central
West Lafayette

OFFICE OF THE REGISTRAR
**PURDUE UNIVERSITY**  
REQUEST FOR ADDITION, DELETION, OR REVISION OF A COURSE

**DEPARTMENT**  | Electrical & Computer Engineering  
**DATE SUBMITTED** | 10-05-2000  
**DATE EFFECTIVE** | 08/20/2001

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

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<tr>
<td>Course Number</td>
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<td>Proposed Title</td>
<td>Computational Models and Methods</td>
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<tr>
<td>Abbreviated Title</td>
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**PROPOSED:**

<table>
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<tr>
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**SEMESTERS OFFERED:**

Check All That Apply.  
Summer | Fail | Ag Winter | Spring |

**COURSE DESCRIPTION (PREREQUISITES INCLUDED):**

Prerequisites: Graduate Standing.

<table>
<thead>
<tr>
<th>Instructional Type</th>
<th>Class Hours</th>
<th>FTE</th>
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<table>
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<th>CAMPUS(ES) INVOLVED</th>
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<tbody>
<tr>
<td>Calumet</td>
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<tr>
<td>Fort Wayne</td>
</tr>
<tr>
<td>Indianapolis</td>
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<tr>
<td>North Central</td>
</tr>
<tr>
<td>West Lafayette</td>
</tr>
<tr>
<td>Off-Campus</td>
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**OFFICE OF THE REGISTRAR**
PURDUE UNIVERSITY
REQUEST FOR ADDITION, DELETION, OR REVISION OF A COURSE

DEPARTMENT: Electrical & Computer Engineering

DATE SUBMITTED: 10-05-2000
DATE EFFECTIVE: 8/20/2001

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

**PURPOSE**
- Deletion of a course
- New course with supporting documents
- Add existing course offered at another campus
- Change in course number at same level
- Dowgrading of course level
- Upgrading of course level
- Change in course title
- Change in semesters offered
- Change in course credit/type
- Change in course attributes
- Change in course prerequisites
- Change in description of course content
- Transfer of course from one dept. to another

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<td>Proposed Title</td>
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<tr>
<td>Abbreviated Title</td>
<td>Energy Conversion</td>
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**PROPOSED:**

<table>
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</thead>
<tbody>
<tr>
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<tr>
<td>Check All That Apply</td>
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</tr>
<tr>
<td>Summer</td>
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<td>Winter</td>
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**CROSS LISTED COURSES**

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<th>CREDIT TYPE</th>
<th>Cr. Hrs.</th>
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<tbody>
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<tr>
<td>2. Variable Credit Range:</td>
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<td>(Check One) To</td>
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<tr>
<td>Maximum Cr. Hrs.</td>
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<td>3. Equivalent Credit:</td>
<td>Yes No</td>
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<tr>
<td>4. Thesis Credit:</td>
<td>Yes No</td>
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**COURSE ATTRIBUTES:**

<table>
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<tbody>
<tr>
<td>1. Pass/Not Pass Only</td>
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<td>2. Repeatable for Credit</td>
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<td>3. Available for Credit by Examination</td>
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<tr>
<td>4. Designator Required</td>
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<td>5. Special Fees</td>
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<td>6. Approval Required for Enrollment</td>
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<tr>
<td>Department</td>
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<tr>
<td>Instructor</td>
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**INSTRUCTIONAL**

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**CLASS**

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**CROSS LISTED COURSES**

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**EXPERIENCE**

COURSE DESCRIPTION (PREREQUISITES INCLUDED):

Prerequisites: Graduate Standing.

```
Calumet Undergrad Curriculum Committee Date
Calumet Department Head Date
Calumet School Dean Date

Fort Wayne Department Head Date
Fort Wayne School Dean Date
Appr. for Faculty #949
C.D.Sutton, Chair 9/5/01

Indianapolis Department Head Date
Indianapolis School Dean Date

North Central Department Head Date
North Central Vice Chancellor Date

West Lafayette Department Head Date
West Lafayette School Dean Date

Graduate Area Committee Convener Date
Graduate Dean Date

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```