

Marshall University

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Recommendations

Faculty Senate

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12-12-2022

### SR 22-23-15-CC

Marshall University Faculty Senate

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## University Curriculum Committee RECOMMENDATION

### SR 22-23-15 CC

Recommends approval of the listed **UNDERGRADUATE MINOR ADDITION, DELETION, CHANGE** in the following college and/or schools/programs:

#### College of Engineering and Computer Sciences

##### **Minor Change: Computer/Information Security (VCIS)**

- **Rationale:** The proposed changes reduce the minor to 15 CH (by removing CS 320 as a requirement), which is consistent with all other CECS minors. Also, the catalog language has been slightly edited to align with other CECS minor language.
- **Curriculum:** [Minor Change \(VCIS, Computer and Information Security\).pdf](#)

##### **Minor Change: Computer Science (VCSC)**

- **Rationale:** The catalog language has been slightly edited to align with other CECS minor language and to clarify who may declare the minor.
- **Curriculum:** [Minor Change \(VCSC, Computer Science\).pdf](#)

##### **Minor Change: Engineering Science (VEG2)**

- **Rationale:** The minor in Engineering Science has not been updated for several years. The proposed changes add flexibility for students pursuing the minor by increasing course options in other subject areas, such as mechanical, electrical, industrial, and biomedical engineering.
- **Curriculum:** [Minor Change \(VEG2, Engineering Science\).pdf](#)

##### **Minor Change: Occupational Safety and Health (VSF2)**

- **Rationale:** Two substantive changes are proposed. First, to replace SFT 373/373L with SFT 375, which is more applicable as an introduction and general overview of the OSH field (also less PR intensive). Second, to specifically delineate which courses would count towards the SFT elective requirement. Also, the catalog language has been slightly edited to align with other CECS minor language.
- **Curriculum:** [Minor Change \(VSF2, Occupational Safety and Health\).pdf](#)

#### College of Science

##### **Minor Change: Web Development (SI20)**

- **Rationale:** CIT 410 plans to be discontinued. Was last offered Spring 2022. CIT 466 also represent the second course of the sequence CIT365-CIT 466 providing a more in depth knowledge of the subject. It aligns with the requirements of the Computer and Web Application Development area of emphasis.
- **Curriculum:** [CIT\\_WebDevelopment\\_MinorChange.pdf](#)

**University Curriculum Committee  
RECOMMENDATION**

**SR 22-23-15 CC**

**FACULTY SENATE CHAIR:**

APPROVED BY THE  
FACULTY SENATE:  DATE: 12/01/2022

DISAPPROVED BY THE  
FACULTY SENATE: \_\_\_\_\_ DATE: \_\_\_\_\_

**UNIVERSITY PRESIDENT:**

APPROVED:  DATE: 12/12/2022

DISAPPROVED: \_\_\_\_\_ DATE: \_\_\_\_\_

**COMMENTS:** \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

NOTE: Recommendations should be sent to the Faculty Senate office via email. Recommendations longer than one page or those with attachments are to be sent in final format with this as a cover page. Any incomplete recommendations or those requiring extensive formatting changes will be returned to the recording secretary/committee.

See <http://www.marshall.edu/senate/ucc/> for information on chair

## Request for Undergraduate Addition, Deletion, or Change of a Minor

1. Prepare one paper copy and obtain signatures from the Department Chair/Head, Librarian, and College Dean.
2. Submit the form to your College Curriculum Committee.
3. After attaining the signature of the College Curriculum Chair, send the paper copy to the current University Curriculum Committee (UCC) Chair.
4. Send an identical (sans signatures) ELECTRONIC COPY and all supporting documentation in PDF format by email to the current UCC Chair.

College: CECS Department/Division: College-Level  
Contact Person: Greg Michaelson / Paulus Wahjudi Phone: (304) 696-5606

### ACTION REQUESTED:

Check action requested:  Addition  Deletion  Change

Name of Minor: VCIS - Computer/Information Security

Within which Major is/will this minor be listed (please provide code as well): \_\_\_\_\_

### RATIONALE:

The proposed changes reduce the minor to 15 CH (by removing CS 320 as a requirement), which is consistent with all other CECS minors. Also, the catalog language has been slightly edited to align with other CECS minor language.

**CURRICULUM:** (If addition or change, number of hours and courses; indicate if required or optional) May be submitted as separate document.

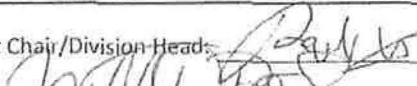


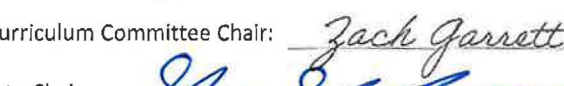

See attachment.

### NOTIFICATION REQUIREMENTS:

Attach a copy of written notification regarding this curriculum request to the following:

1. **Statement of Non-Duplication:** If this minor will be similar in title or content to an existing minor at the university, please send a memo to the affected department and include it with this packet, as well as, the response received from the affected department.
2. If your department/division requires additional faculty, equipment, or specialized materials, attach an estimation of money and time required to secure these items.
3. Send a copy of this completed form to the Marshall University Catalog Editor.

**SIGNATURES:** (If disapproved at any level, do not sign. Return to previous signer.)

Department Chair/Division Head: 	Date: <u>9/7/22</u>
Registrar: 	Date: <u>9/8/2022</u>
College Dean: 	Date: <u>9/12/22</u>
College Curriculum Chair: 	Date: <u>10/15/2022</u>
University Curriculum Committee Chair: <u>Zack Garrett</u>	Date: <u>10/21/22</u>
Faculty Senate Chair: 	Date: <u>12/01/2022</u>
VP Academic Affairs/VP Health Science: <u>A. Murkufke</u>	Date: <u>12/9/2022</u>

## VCIS – Computer and Information Security

### *Current Catalog Description*

#### COMPUTER AND INFORMATION SECURITY, MINOR

Contact: Dr. Paulus Wahjudi, Chair ([wahjudi@marshall.edu](mailto:wahjudi@marshall.edu))

Security is a critical factor in today's world that is highly dependent on computers. This minor allows students to augment any technology-related field of study with knowledge in cyber-physical security. The minor is focused on students majoring in Computer Science, Electrical and Computer Engineering, and other closely related fields, but is open to any student able to meet the necessary prerequisites.

<u>CS 110</u>	Computer Science I	3
<u>CS 120</u>	Computer Science II	3
<u>CS 210</u>	Data Structures and Algorithms	3
<u>CS 320</u>	Internetworking	3
<u>CYBR 330</u>	Cyber Security	3
One CYBR course at the 300 or 400 level		3
<b>Total Credit Hours</b>		<b>18</b>

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## VCIS – Computer and Information Security

### *Proposed Catalog Description*

#### COMPUTER AND INFORMATION SECURITY, MINOR

Contact: Dr. Paulus Wahjudi, Chair ([wahjudi@marshall.edu](mailto:wahjudi@marshall.edu))

The minor in Computer and Information Security requires a minimum of 15 CH, as indicated below. Computer and Information Security majors may not declare a minor in Computer and Information Security. Students must meet the prerequisites for individual courses, even if a prerequisite course does not count towards the minor. Students must have a minimum 2.0 GPA average in courses taken and applied to the Computer and Information Security minor.

<u>CS 110</u>	Computer Science I	3
<u>CS 120</u>	Computer Science II	3
<u>CS 210</u>	Data Structures and Algorithms	3
Select one of the following:		3
<u>CS 430</u>	Cyber Security	
<u>CYBR 330</u>	Cyber Security	
300-400 CYBR Course		3
<b>Total Credit Hours</b>		<b>15</b>

See <http://www.marshall.edu/senate/ucc/> for information on chair

## Request for Undergraduate Addition, Deletion, or Change of a Minor

1. Prepare one paper copy and obtain signatures from the Department Chair/Head, Librarian, and College Dean. 2. Submit the form to your College Curriculum Committee. 3. After attaining the signature of the College Curriculum Chair, send the paper copy to the current University Curriculum Committee (UCC) Chair. 4. Send an identical (sans signatures) ELECTRONIC COPY and all supporting documentation in PDF format by email to the current UCC Chair.

College: CECS Department/Division: College-Level  
Contact Person: Greg Michaelson / Paulus Wahjudi Phone: (304) 696-5606

### ACTION REQUESTED:

Check action requested:  Addition  Deletion  Change

Name of Minor: VCSC - Computer Science

Within which Major is/will this minor be listed (please provide code as well): \_\_\_\_\_

### RATIONALE:

The catalog language has been slightly edited to align with other CECS minor language and to clarify who may declare the minor.

**CURRICULUM:** (If addition or change, number of hours and courses; indicate if required or optional) May be submitted as separate document.

See attachment.

### NOTIFICATION REQUIREMENTS:

Attach a copy of written notification regarding this curriculum request to the following:

1. **Statement of Non-Duplication:** If this minor will be similar in title or content to an existing minor at the university, please send a memo to the affected department and include it with this packet, as well as, the response received from the affected department.
2. If your department/division requires additional faculty, equipment, or specialized materials, attach an estimation of money and time required to secure these items.
3. Send a copy of this completed form to the Marshall University Catalog Editor.

**SIGNATURES:** (If disapproved at any level, do not sign. Return to previous signer.)

Department Chair/Division Head: <u>[Signature]</u>	Date: <u>9/7/22</u>
Registrar: <u>[Signature]</u>	Date: <u>9/8/2022</u>
College Dean: <u>[Signature]</u>	Date: <u>9/12/22</u>
College Curriculum Chair: <u>[Signature]</u>	Date: <u>10/5/2022</u>
University Curriculum Committee Chair: <u>Zach Garrett</u>	Date: <u>10/21/22</u>
Faculty Senate Chair: <u>[Signature]</u>	Date: <u>12/01/2022</u>
VP Academic Affairs/VP Health Science: <u>A. Mukherjee</u>	Date: <u>12/9/2022</u>

## VCSC – Computer Science

### *Current Catalog Description*

#### COMPUTER SCIENCE, MINOR

Contact: Dr. Paulus Wahjudi, Chair ([wahjudi@marshall.edu](mailto:wahjudi@marshall.edu))

A student may be awarded a minor in computer science by completing, with a minimum 2.0 GPA, a minimum of 15 credits that include the following courses:

<u>CS 110</u>	Computer Science I	3
<u>CS 120</u>	Computer Science II	3
<u>CS 210</u>	Data Structures and Algorithms	3
Any two CS courses at the 300 or 400 level		3
<b>Total Credit Hours</b>		<b>15</b>

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## VCSC – Computer Science

### *Proposed Catalog Description*

#### COMPUTER SCIENCE, MINOR

Contact: Dr. Paulus Wahjudi, Chair ([wahjudi@marshall.edu](mailto:wahjudi@marshall.edu))

The minor in Computer Science requires a minimum of 15 CH, as indicated below. Computer Science majors may not declare a minor in Computer Science. Students must meet the prerequisites for individual courses, even if a prerequisite course does not count towards the minor. Students must have a minimum 2.0 GPA average in courses taken and applied to the Computer Science minor.

<u>CS 110</u>	Computer Science I	3
<u>CS 120</u>	Computer Science II	3
<u>CS 210</u>	Data Structures and Algorithms	3
300-400 CS Course		3
300-400 CS Course		3
<b>Total Credit Hours</b>		<b>15</b>

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## Request for Undergraduate Addition, Deletion, or Change of a Minor

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2. Submit the form to your College Curriculum Committee.
3. After attaining the signature of the College Curriculum Chair, send the paper copy to the current University Curriculum Committee (UCC) Chair.
4. Send an identical (sans signatures) ELECTRONIC COPY and all supporting documentation in PDF format by email to the current UCC Chair.

College: CECS Department/Division: College-Level  
Contact Person: Greg Michaelson Phone: (304) 696-5606

### ACTION REQUESTED:

Check action requested:  Addition  Deletion  Change

Name of Minor: VEG2 - Engineering Science

Within which Major is/will this minor be listed (please provide code as well): \_\_\_\_\_

### RATIONALE:

The minor in Engineering Science has not been updated for several years. The proposed changes add flexibility for students pursuing the minor by increasing course options in other subject areas, such as mechanical, electrical, industrial, and biomedical engineering.

**CURRICULUM:** (If addition or change, number of hours and courses; indicate if required or optional) May be submitted as separate document.

See attachment.

### NOTIFICATION REQUIREMENTS:

Attach a copy of written notification regarding this curriculum request to the following:

1. **Statement of Non-Duplication:** If this minor will be similar in title or content to an existing minor at the university, please send a memo to the affected department and include it with this packet, as well as, the response received from the affected department.
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3. Send a copy of this completed form to the Marshall University Catalog Editor.

**SIGNATURES:** (If disapproved at any level, do not sign. Return to previous signer.)

Department Chair/Division Head: _____	Date: <u>01-Sep-2022</u>
Registrar: _____	Date: <u>9/1/2022</u>
College Dean: _____	Date: <u>9/12/22</u>
College Curriculum Chair: <u>A. P. S.</u>	Date: <u>10/5/2022</u>
University Curriculum Committee Chair: <u>Zach Garrett</u>	Date: <u>10/21/22</u>
Faculty Senate Chair: _____	Date: <u>12/01/2022</u>
VP Academic Affairs/VP Health Science: <u>A. Munkhejee</u>	Date: <u>12/9/2022</u>



## VEG2 – Engineering Science

### *Current Catalog Description*

#### ENGINEERING SCIENCE, MINOR

Contact: Dr. Gregory Michaelson, P.E., Interim Associate Dean ([michaelson@marshall.edu](mailto:michaelson@marshall.edu))

A student may be awarded a minor in engineering science by completing 15 credits of ENGR or CE. Two courses are required, ENGR 213 Statics and ENGR 216 Mech of Deformable Bodies, and at least six credits must be 300-level or 400-level engineering courses. A student must complete all the required prerequisites and have at least a 2.0 average in courses taken and applied to the engineering science minor.

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## VEG2 – Engineering Science

### *Proposed Catalog Description*

#### ENGINEERING SCIENCE, MINOR

Contact: Dr. Gregory Michaelson, P.E., Associate Dean ([michaelson@marshall.edu](mailto:michaelson@marshall.edu))

The minor in Engineering Science requires a minimum of 15 CH, as indicated below. Engineering majors may not declare a minor in Engineering Science. Students must meet the prerequisites for individual courses, even if a prerequisite course does not count towards the minor. Students must have a minimum 2.0 GPA average in courses taken and applied to the Engineering Science minor.

<u>ENGR 104</u>	The Engineering Profession	1
Select one of the following:		2
<u>CE 102</u>	Introduction to CAD	
<u>ENGR 102</u>	Introduction to CAD	
Select one of the following:		3
<u>CS 110</u>	Computer Science I	
<u>CS 110H</u>	Computer Science I Honors	
<u>ENGR 111</u>	Engineering Computations	
<u>ME 111</u>	Mech Engineering Computations	
200-400 level Engineering Course (BME, CE, EE, ENGR, IE, ME)		3
200-400 level Engineering Course (BME, CE, EE, ENGR, IE, ME)		3
300-400 level Engineering Course (BME, CE, EE, ENGR, IE, ME)		3
<b>Total Credit Hours</b>		<b>15</b>

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## Request for Undergraduate Addition, Deletion, or Change of a Minor

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2. Submit the form to your College Curriculum Committee.
3. After attaining the signature of the College Curriculum Chair, send the paper copy to the current University Curriculum Committee (UCC) Chair.
4. Send an identical (sans signatures) ELECTRONIC COPY and all supporting documentation in PDF format by email to the current UCC Chair.

College: CECS Department/Division: Mechanical & Industrial Engr.  
Contact Person: Greg Michaelson / Jim McIntosh Phone: (304) 696-5606

### ACTION REQUESTED:

Check action requested:  Addition  Deletion  Change

Name of Minor: VSF2 - Occupational Safety and Health

Within which Major is/will this minor be listed (please provide code as well): \_\_\_\_\_

### RATIONALE:

Two substantive changes are proposed. First, to replace SFT 373/373L with SFT 375, which is more applicable as an introduction and general overview of the OSH field (also less PR intensive). Second, to specifically delineate which courses would count towards the SFT elective requirement. Also, the catalog language has been slightly edited to align with other CECS minor language.

**CURRICULUM:** (If addition or change, number of hours and courses; indicate if required or optional) May be submitted as separate document.

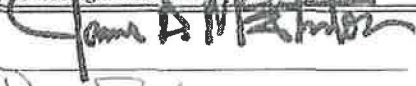


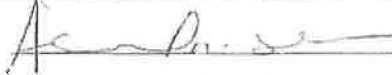

See attachment.

### NOTIFICATION REQUIREMENTS:

Attach a copy of written notification regarding this curriculum request to the following:

1. **Statement of Non-Duplication:** If this minor will be similar in title or content to an existing minor at the university, please send a memo to the affected department and include it with this packet, as well as, the response received from the affected department.
2. If your department/division requires additional faculty, equipment, or specialized materials, attach an estimation of money and time required to secure these items.
3. Send a copy of this completed form to the Marshall University Catalog Editor.

**SIGNATURES:** (If disapproved at any level, do not sign. Return to original sender.)

Department Chair/Division Head: 	Date: <u>01-Sep-2022</u>
Registrar: 	Date: <u>9/1/2022</u>
College Dean: 	Date: <u>9/12/2022</u>
College Curriculum Chair: 	Date: <u>10/5/2022</u>
University Curriculum Committee Chair: <u>Zach Garrett</u>	Date: <u>10/21/22</u>
Faculty Senate Chair: 	Date: <u>12/01/2022</u>
VP Academic Affairs/VP Health Science: <u>A. Munkley</u>	Date: <u>12/9/2022</u>

## VSF2 – Occupational Safety and Health

*Current Catalog Description*

OCCUPATIONAL SAFETY AND HEALTH, MINOR  
(includes CHM & PHY prerequisites)

Contact: Prof. James McIntosh, Chair ([mcintoshj@marshall.edu](mailto:mcintoshj@marshall.edu))

A minor in Occupational Safety and Health may be earned by completing the courses taken toward the minor with a minimum average GPA of 2.0.

<u>SFT 235</u>	Intro to Occup Safety (CT)	3
<u>SFT 372</u>	Safety & Industrial Tech	3
<u>SFT 373</u>	Prin Ergonomics & Hum Factors	3
<u>SFT 373L</u>	Prin Ergonomics Lab	1
<u>SFT 499</u>	Dev & Mgt of Occup Safety Prog	3
One additional SFT course		3
<b>Total Credit Hours</b>		<b>15</b>

## VSF2 – Occupational Safety and Health

### *Proposed Catalog Description*

#### OCCUPATIONAL SAFETY AND HEALTH, MINOR

Contact: Prof. James McIntosh, Chair ([mcintoshj@marshall.edu](mailto:mcintoshj@marshall.edu))

The minor in Occupational Safety and Health requires a minimum of 15 CH, as indicated below. Occupational Safety and Health majors may not declare a minor in Occupational Safety and Health. Students must meet the prerequisites for individual courses, even if a prerequisite course does not count towards the minor. Students must have a minimum 2.0 GPA average in courses taken and applied to the Occupational Safety and Health minor.

<u>SFT 235</u>	Intro to Occup Safety (CT)	3
<u>SFT 372</u>	Safety & Industrial Tech	3
<u>SFT 375</u>	Construction Safety	3
<u>SFT 499</u>	Dev & Mgt of Occup Safety Prog	3
Select one of the following:		3-4
<u>SFT 373</u> <u>SFT 373L</u>	Prin Ergonomics & Hum Factors Prin Ergonomics Lab	4
<u>SFT 460</u>	Safety Training Methods	3
<u>SFT 461</u>	Workers Compensation	3
<u>SFT 465</u>	Incident Investigation and PSM	3
<u>SFT 498</u>	Envir Safety & Health Legis	3
<u>SFT 480 - SFT 483</u>	Special Topics	3
<u>SFT 485 - SFT 487</u>	Independent Study	3
<b>Total Credit Hours</b>		<b>15-16</b>

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## Request for Undergraduate Addition, Deletion, or Change of a Minor

1. Prepare one paper copy and obtain signatures from the Department Chair/Head, Librarian, and College Dean.
2. Submit the form to your College Curriculum Committee.
3. After attaining the signature of the College Curriculum Chair, send the paper copy to the current University Curriculum Committee (UCC) Chair.
4. Send an identical (sans signatures) ELECTRONIC COPY and all supporting documentation in PDF format by email to the current UCC Chair.

College: College of Science Department/Division: Computer and Information Technology

Contact Person: Davide Andrea Mauro maurod@marshall.edu Phone: 3046966418

### ACTION REQUESTED:

Check action requested:  Addition  Deletion  Change

Name of Minor: Web Development

Within which Major is/will this minor be listed (please provide code as well): Computer and Info Tech SI20

### RATIONALE:

CIT410 plans to be discontinued. Was last offered in Spring 2022.  
CIT466 also represent the second course of the sequence CIT365-CIT466 providing a more in depth knowledge of the subject. It aligns with the requirements of the Computer and Web Application Development area of emphasis.

**CURRICULUM:** (If addition or change, number of hours and courses; indicate if required or optional) May be submitted as separate document.

CIT410 (3 credit hours) should be replaced by CIT466 (3 credit hours) as a required class.  
The new curriculum will be: CIT263, CIT313, CIT365, CIT416, CIT466. All required.

### NOTIFICATION REQUIREMENTS:

Attach a copy of written notification regarding this curriculum request to the following:

1. **Statement of Non-Duplication:** If this minor will be similar in title or content to an existing minor at the university, please send a memo to the affected department and include it with this packet, as well as, the response received from the affected department.
2. If your department/division requires additional faculty, equipment, or specialized materials, attach an estimation of money and time required to secure these items.
3. Send a copy of this completed form to the Marshall University Catalog Editor.

**SIGNATURES:** (If disapproved at any level, do not sign. Return to previous signer.)

Department Chair/Division Head: <u><i>Dave Shea</i></u>	Date: <u>08/30/2022</u>
Registrar: <u><i>Sonye</i></u>	Date: <u>9/1/22</u>
College Dean: <u><i>Bob</i></u>	Date: <u>09/26/2022</u>
College Curriculum Chair: <u><i>MC Babine Hamilton</i></u>	Date: <u>9/30/22</u>
University Curriculum Committee Chair: <u><i>Zach Garrett</i></u>	Date: <u>10/31/22</u>
Faculty Senate Chair: <u><i>Dr. [Signature]</i></u>	Date: <u>12/01/2022</u>
VP Academic Affairs/VP Health Science: <u><i>A. Murkhyee</i></u>	Date: <u>12/9/2022</u>