Bachelor of Science in Cybersecurity (e-major)

New Degree/Major Program v3.0

Introduction

This form serves as the approval process of record for new degree and major proposals at Kennesaw State University.

There are several external Board of Regents documents that may need to be completed in order to launch this process. You will find links to these documents here, as well as at the KSU Curriculum resources site. We advise that you first collect any necessary external documentation before proceeding with the new program approval process.

For detailed assistance, please enable help text. Direct all questions concerning this and other forms to curriculog@kennesaw.edu.

General Information

If the proposed new program will have an impact on courses or programs in other departments, please contact the appropriate department chairs for further discussion before moving on.

Impact of new program?* ☑ I have conferred with other departments that might be impacted by this proposal. An executive summary of those discussions is attached.

☐ This proposal does not impact offerings in other departments.

Program Name* Bachelor of Science in Cybersecurity (e-major)

CIP Code* 11.1003

CIP was checked by Enterprise Information Management

☐ Yes ☐ No

Type of Degree BS

If new or unlisted degree type, list here:

https://kennesaw.curriculog.com/proposal:4468/print
<table>
<thead>
<tr>
<th>Type of Program</th>
<th>Degree/Major</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>If new or unlisted program type, list here:</strong></td>
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</tr>
<tr>
<td><strong>Department of Ownership</strong></td>
<td>Institute for Cybersecurity Workforce Development</td>
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<td>Curriculum Type</td>
<td>Program</td>
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<tr>
<td><strong>Academic Policies</strong></td>
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The Bachelor of Science in Cybersecurity is a fully online degree that has the primary objective of meeting the high demand for professional degrees in the area of cybersecurity. The degree has core requirements, major requirements, major specializations, and required electives. The major contains those courses considered fundamental to the cybersecurity field and the electives give the student some flexibility in choice.

**Admission Criteria**

All students must meet the admission requirements for freshmen and/or transfer students as determined by KSU as documented at http://admissions.kennesaw.edu/. Admission to the University will require a 2.5 GPA in 17 units of required high school coursework as recalculated by Kennesaw State as well as a minima score requirements for Freshmen and Transfer Freshmen must score an SAT Total Score on 1600 Scale: 1030 AND SAT Reading Test Score: 25 AND SAT Math Section Score: 490 -or- ACT Composite score of 20 AND ACT English sub-score of 18 AND ACT Math sub-score of 18. Other categories of admission have differing requirements as published at http://admissions.kennesaw.edu/.

All students must meet the graduation requirements for undergraduate students as determined by KSU and also complete all Major course requirements with a grade of ‘C’ or better.

The proposed B.S. in Cybersecurity eMajor will be housed in the Institute of Cybersecurity Workforce Development at the University. This degree is intended to be an access degree, enabling a much broader set of options enabling the use of articulation agreements with the technical college system and eCore affiliates across the State of Georgia.

Admission to the BS-CYBR degree program eMajor will be open to any student who has completed (or is scheduled to complete) the General Education and Area F – Lower Division Major Requirements through any recognized and transferrable method. That includes transfer of credit from other Institutions (following KSU policies for transfer of credit), eCore courses documented by KSU, KSU courses taken on campus as well as KSU online courses. Once accepted as into the eMajor BS-CYBR, students will be eligible to register for courses offered at the eMajor tuition rate.
The purpose of the Bachelor of Science in Cybersecurity (BS-CYBR) program is to create technologically capable, business-aware cybersecurity professionals capable of applying technical skills and the knowledge of security management to protect computerized information systems from a wide variety of threats, and to manage the risks associated with modern information technology usage. Cybersecurity is a computing-based discipline involving technology, people, information, and processes to enable assured operations. It involves the creation, operation, analysis, and testing of secure computer systems. It is an interdisciplinary course of study, including aspects of information technology, law, policy, human factors, ethics, and risk management often in the context of adversaries.

The Department of Homeland Security and the National Security Agency have jointly designated Kennesaw State University as a National Center of Academic Excellence in Cyber Defense Education with specialized focus areas in Security Policy Development & Compliance and Systems Security Administration.

The Institute for Cybersecurity workforce development requires that BS-CYBR candidates must earn a grade of "C" or better in all upper division courses in order to be counted toward their degree.

USING THE PROGRAM BUILDER:

In order to build or edit a program, you must first add all courses to be included in the program of study through the view curriculum courses tab. Then, to add cores (sections of the program of study, e.g., Upper-level Division Requirements), click on the view curriculum schema tab. Changes to the program of study will not be recorded unless these steps are completed.

General Education (43-44 Credit Hours)

*See the KSU catalog for complete listing of requirements.*

The area A math requirement is (MATH 1111 and MATH 1112) or MATH 1113. The area B requirement is COM 1100 (Human Communication). The area D math requirement is MATH 1190 (Calculus I) or MATH 1160 (Elementary Applied Calculus). The area E requirement is either ECON 2100 (Principles of Microeconomics) or CRJU 1101 (Foundations of Criminal Justice).
Lower Division Major Requirements (Area F) (18 Credit Hours)

ACCT 2100 - Introduction to Financial Accounting
MATH 2332 Probability and Data Analysis
or
MATH 1107 Introduction to Statistics
or
ECON 2300 Business Statistics
CS 1301 Programming Principles I
or
CSE 1301 Programming and Problem Solving I
IT 1324 Advanced Programming Principles
CSE 2300 Discrete Structures for Computing
or
MATH 2345 Discrete Mathematics
One Hour from Area D (Students recommended to take BLAW 2200 – Business Law. The extra 2 hours of this course will count toward free electives.)

Upper Division Major Requirements (36 Credit Hours)

Upper Division Technical Core

IT 3123 Hardware and Software Concepts
IT 3423 Operating Systems Concepts & Administration
IT 4323 Data Communications & Networking
IT 4423 Linux/Unix Administration

Upper Division Security Core

CYBR 3100 Principles of Information Security
CYBR 3200 Network Security
CYBR 3210 Client Systems Security
CYBR 3300 Management of Information Security in a Global Environment
CYBR 4200 Perimeter Defense
CYBR 4220 Server Systems Security
CYBR 4330 Incident Response and Contingency Planning

Capstone

CYBR 4810 Cyber Defense

Upper Division Major Specializations (9 Credit Hours)

All BS-CYBER students are required to take a minimum of 9 credit hours as an upper-level specialization. They must choose one of the following tracks and complete all of the courses listed. The options are:

Systems Security Track

CSE 3153 Database Systems
CYBR 4843 Ethical Hacking for Effective Defense
or
CYBR 4883 Infrastructure Defense
CYBR 4350 Management of Digital Forensics and eDiscovery
or
CYBR 4853 Computer Forensics

Network Security Track

IT 4333 Network Configuration & Administration
CYBR 4833 Wireless Security
CYBR 4893 Internet of Things: Applications and Security

Cyber Crime Track

Note: Requires CRJU 1101 as Area E General Education requirement, otherwise students must take as a Free Elective.
CRJU 3305 Technology and Criminal Justice
CRJU 4305 Technology and Cyber Crime
CYBR 4350 Management of Digital Forensics and eDiscovery
or
CYBR 4853 Computer Forensics

Major Electives (9 Credit Hours)

Students should choose 9 credit hours from the following:

CYBR 3396 Cooperative Study
CYBR 3398 Internship
CYBR 4400 Directed Study
CYBR 4490 Special Topics
CYBR 4700 Emerging Issues in Cybersecurity
Any 3xxx or 4xxx IS/ISA/IT/CS/CRJU course the student can meet the prerequisites for except restricted ISA or IT Security course (see advisor for complete listing)
Optional programs of study that may be considered contemporaneously with the degree:

Information Technology Minor (Embedded)
Students earning a major in Cybersecurity will automatically earn the Minor in Information Technology.

Criminal Justice Minor (9 + 3 Credit Hours)
Students desiring a minor in criminal justice should take the CJ track outlined above AND the following courses as major and free electives. Note the 4th course will count as a free elective.
- CRJU 3310 - Police in America
- CRJU 3332 - Corrections OR CRJU 3352 - Juvenile Delinquency and Corrections
- CRJU 3300 - Criminal Courts OR CRJU 3315 - Criminal Procedure
- One CRJU course from approved minor elective list (see catalog for listing and availability)

Crisis Preparedness Minor (9 + 3 Credit Hours)
Students desiring a minor in crisis preparedness should take the following courses as major and free electives. Note the 4th course will count as a free elective.
Required Courses (6 Credit Hours) Note: BS-CYBR students take ISA 3300 and ISA 4330 in lieu of ISA 3330.
- PR 4460 - Crisis Communication
- POLS 4200 - Homeland Security Administration
Elective Courses (6 Credit Hours as Free electives) selected from the following:
- CRJU 3400 - Ideological/Group Violence and Law Enforcement
- CRJU 4100 - Ethics in Criminal Justice
- PR 4670 - Crisis Leadership Communication
- POLS 4437 - Global Security
Free Electives (8 Credit Hours)

Any course(s) in the university curriculum.

Program Total (123 Credit Hours)

Note: A new course proposal must be submitted for all new courses in this program.

Required Attachements

PROGRAM PROSPECTUS

Purpose of the prospectus:

A program prospectus is the initial submission of a potential degree and/or major that is consistent with the institution’s mission and that the institution deems a priority. The prospectus is designed to allow institutions to submit program ideas for feedback without expending substantial resources toward the development of a full new program proposal.

The primary purpose of the prospectus is to “make the case” for submitting a formal proposal for the new program. There are three key criteria that should be addressed in the prospectus: 1) Justification of Need; 2) Demand; and 3) Non-Duplication. The prospectus requires institutions to provide clear evidence of how a proposed degree and/or major meets need, demand, and does not lead to unnecessary program duplication in the University System. All prospectuses are expected to include data or evidence to support the need and demand for the program. Of course, the stronger the evidence accompanying a prospectus, the greater the likelihood the institution will be invited to submit a formal proposal.

New Program Prospectus Form

I have attached the Degree/Program Proposal Prospectus

* Yes

How will the proposed program be delivered?

* Face-to-face

* Distance Learning

https://kennesaw.curriculog.com/proposal:4468/print
Please complete and attach the appropriate BOR Formal Proposal form.

**Formal Proposal for a New Degree/Major Program: Face-to-face**

**Formal Proposal for a New Degree/Major Program: Distance Learning**

I have attached a New Degree/Major Proposal Formal Proposal.*

**ACADEMIC PROGRAM ASSESSMENT PLAN**

**Academic Program Improvement**

The Academic Program Improvement (API) system was designed for faculty to more effectively report on assessments, analysis of those assessments and resulting improvements to academic programs.

The API system improves efficiency by replacing the AOL and part of the CPR reporting processes, and by administering report reviews through established governance structures.

Each academic program that leads to a credential (certificate or degree) will report. Each distinct implementation of a program (e.g., on campus, marketed and/or implemented as fully off site, or marketed and/or implemented as fully online) reports separately using data that is disaggregated from other implementations.

Go to information on academic program assessment.

I have attached an Academic Program Assessment Plan.*

If this proposal is for a doctoral program, please complete and attach an **Applied Doctoral Supplemental Form**.

Is this proposal for a doctoral program?* Yes. I have attached an Applied Doctoral Supplemental Form.

**Routing Information**

Name of departmental contact* Herbert Mattord
<table>
<thead>
<tr>
<th>Question</th>
<th>Yes</th>
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CYBR - 3100 - Principles of Information Security
New Course v3.0

General Information

This form serves as the approval process of record for new course proposals at Kennesaw State University.

For detailed assistance, please enable help text. Direct all questions concerning this and other forms to curriculog@kennesaw.edu.

Anticipated Implementation Date:

<table>
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<td>Lecture</td>
</tr>
<tr>
<td>Classification of Course</td>
<td>Upper Division</td>
</tr>
</tbody>
</table>

*If this course will satisfy a program requirement or elective, please list all programs and area of each program that will be impacted.

For example: BFA in Art, Upper-Division Major Requirements.

Program(s) impacted*

This course represents the purposeful duplication of an existing course in the BBA-Information Security and Assurance program (ISA 3100) and is used here as an Upper Division Major Requirement for the BS in Cybersecurity eMajor. Key points:

1) There are no material changes to this course that would impact any other program.
2) The new course number is designed to facilitate e-major usage and usage of the established courses being used to support the proposed BS-Cybersecurity
3) The primary need is for variance in pre-requisites for courses in the BS-CYBR course sequence subsequent to the entry courses in the major.

*In order to ensure that courses are added to their relevant program areas, please complete the Change to Program Name, Requirements or Policies form.

Course Information
### Principles of Information Security

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<tbody>
<tr>
<td><strong>Number</strong></td>
<td>3100</td>
</tr>
<tr>
<td><strong>Title</strong></td>
<td>Principles of Information Security</td>
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<tr>
<td><strong>Lecture Hours</strong></td>
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</tr>
<tr>
<td><strong>Laboratory Hours</strong></td>
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</tr>
<tr>
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#### Learning Support

**Prerequisites**
Completion of Programming Principles I (CS 1301 or CSE 1301) (or its transfer equivalent) with a grade of 'C' or better and admission to the Bachelor of Science in Cybersecurity eMajor program of study.

**Course Corequisites**
None

**Catalog Description**
This course offers a foundation in the various technical and administrative aspects of Cybersecurity and provides the terminology and principles for understanding the key issues associated with protecting information assets, determining the levels of protection and response to security incidents, as well as designing a consistent, reasonable cybersecurity system.

**Explain how this specific course fits within the context of the institution’s mission.**
This course is a purposeful duplication of an existing course and relies on the established institutional context for that course.
A panel of interdisciplinary faculty members selected this course from existing KSU curriculum to include in this proposal so as to leverage the existing course work.

Graduate level courses only: Please list all of the faculty-approved degree(s) required to teach this course.

What is the substance of content in each prerequisite that commands its inclusion as a prerequisite to the proposed course? The introductory course in programming is believed to be a valid indicator of readiness to advance to the level of academic preparation necessary to successfully complete this course.

What is the desired sequence of prerequisites? Only one.

What is the rationale for requiring the above sequence of prerequisites?
How often are the required prerequisites offered?

Give any other justification for the course.

How often will this course be offered?

If other, please state frequency

Type of Delivery*

- On Kennesaw Campus: Face-to-Face
- On Marietta Campus: Face-to-Face
- Fully at a distance- online
- Hybrid
- Off-site location

Name of off-site location (if applicable)

All sections of the course will be taught with the understanding that the following apply:

Learning Outcomes†
Please see the attached syllabus.

Course content* Please see the attached syllabus.

What instructional methodologies will be incorporated into the course to stimulate group process and educational outcomes?*

Outline the plan for continuous course assessment.*

This course is a co-listing of an existing course and relies on the established instructional methodologies for that course.

Course Title for Label* Principles of Info Security

Grades Allowed* ☑ Regular ☐ S/U

How many times can you re-enroll in this course to improve grade?*

2

Is this course repeatable for credit?* ☐ Yes ☑ No

If yes, how many times may it be taken for credit?

https://kennesaw.curriculog.com/proposal:4528/print
Will this course be included in General Education?  
☐ Yes  ☐ No

Will this course be included in Area F?  
☐ Yes  ☐ No

If this course is used to satisfy CPC, what areas?

Are special fees or tuition required for this course?  
☐ Yes  ☐ No

If yes, the academic department must submit the Request for New or Change in Course Fee form to the Office of Budget and Planning for approval. Special fees will not be assessed at the section if the request has not been approved. Special course fees are not retroactive. Please follow-up with each special course fee request in a timely manner.

Check to confirm.*  ☑ I have attached a course syllabus.

The institution has reviewed the University System of Georgia list of common course prefixes, numbers, and descriptions. (USG Academic Affairs Handbook, 2.4.(0))

Is this course in compliance?  
☐ Yes  ☐ No

If this course is for an Area F major or degree program, does it meet the USG Area F guidelines for that program?  
☐ Yes  ☐ No  ☑ NA

Note: USG Area F guidelines can be reviewed here.

Resources and Funding

What resources will be redirected to accommodate this course?  

What resources will be used to accommodate this course?
Explain the costs for each of the following items (personnel, computer technology, space, equipment, other).

**Personnel**
Please see the attachments to the program application.

**Computer Technology**
Please see the attachments to the program application.

**Library Resources**
Please see the attachments to the program application.

**Equipment**
Please see the attachments to the program application.

**Space**
Please see the attachments to the program application.

**Other Necessary Resources**

**General Education or Area F ONLY**

If this course has been approved as a General Education course requirement, Please attach the USG Core Course Proposal form found at http://curriculum.kennesaw.edu/resources/bor-forms-info.php

I have completed and attached the USG Core Course Proposal form.

- Yes
- No
- NA

**Routing Information**

Department of Ownership
Institute for Cybersecurity Workforce Development
<table>
<thead>
<tr>
<th>Departmental Contact</th>
<th>Herb Mattord</th>
</tr>
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CYBR - 3200 - Network Security
New Course v3.0

General Information

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For detailed assistance, please enable help text. Direct all questions concerning this and other forms to curriculog@kennesaw.edu.

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For example: BFA in Art, Upper-Division Major Requirements.

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| This course represents the purposeful duplication of an existing course in the BBA-Information Security and Assurance program (ISA 3200) and is used here as an Upper Division Major Requirement for the BS in Cybersecurity e-major. Key points:
1) There are no material changes to this course that would impact any other program.
2) The new course number is designed to facilitate e-major usage and usage of the established courses being used to support the proposed BS-Cybersecurity
3) The primary need is for variance in pre-requisites for courses in the BS-CYBR course sequence subsequent to the entry courses in the major. |

*In order to ensure that courses are added to their relevant program areas, please complete the Change to Program Name, Requirements or Policies form.

Course Information
Prefix: CYBR
Number: 3200

Title: Network Security

Lecture Hours: 3
Laboratory Hours: 0
Credit Hours: 3

Level of Course: Undergraduate

Learning Support

Prerequisites: A grade of ‘C’ or better in Principles of Cybersecurity (CYBR 3100) or equivalent AND admission to the Bachelor of Science in Cybersecurity E-Major program of study.

Courses considered concurrent prerequisites:

Course Co-requisites: None

Catalog Description: This course provides a complete foundation of the cybersecurity of networked information systems, providing a detailed examination of principles, theory, tools, techniques, and technologies used in network cybersecurity.

Explain how this specific course fits within the context of the institution’s mission: This course is a purposeful duplication of an existing course and relies on the established institutional context for that course.
A panel of interdisciplinary faculty members selected this course from existing KSU curriculum to include in this proposal so as to leverage the existing course work and faculty capabilities.

Graduate level courses only:
Please list all of the faculty-approved degree(s) required to teach this course.

This course is a purposeful duplication of an existing course and relies on the established pre- and co-requisite flows.

What is the desired sequence of prerequisites?

What is the rationale for requiring the above sequence of prerequisites?
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All sections of the course will be taught with the understanding that the following apply:

Learning Outcomes†
Please see the attached syllabus.

**Course Title for Label**

- Network Security

**Grades Allowed**

- ☑ Regular
- ☐ S/U

**How many times can you re-enroll in this course to improve grade?**

- 1

**Is this course repeatable for credit?**

- ☑ Yes
- ☐ No

**If yes, how many times may it be taken for credit?**

This course is a purposeful duplication of an existing course and relies on the established instructional methodologies for that course.

**What instructional methodologies will be incorporated into the course to stimulate group process and educational outcomes?**

This course is a purposeful duplication of an existing course and relies on the established assessment methodologies for that course.

**Outline the plan for continuous course assessment.**
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General Education or Area F ONLY

If this course has been approved as a General Education course requirement, Please attach the USG Core Course Proposal form found at [http://curriculum.kennesaw.edu/resources/bor-forms-info.php](http://curriculum.kennesaw.edu/resources/bor-forms-info.php)

I have completed and attached the USG Core Course Proposal form. *
- [ ] Yes
- [ ] No
- [x] NA

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**Is this an education course from outside the Bagwell College of Education?**

- [ ] Yes
- [x] No
## CYBR - 3210 - Client Systems Security

### New Course v3.0

#### General Information

This form serves as the approval process of record for new course proposals at Kennesaw State University.

For detailed assistance, please enable help text. Direct all questions concerning this and other forms to curriculog@kennesaw.edu.

**Anticipated Implementation Date:**

<table>
<thead>
<tr>
<th>Term/Year</th>
<th>Fall 2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type of Course</td>
<td>Lecture</td>
</tr>
<tr>
<td>Classification of Course</td>
<td>Upper Division</td>
</tr>
</tbody>
</table>

*If this course will satisfy a program requirement or elective, please list all programs and area of each program that will be impacted.

**For example: BFA in Art, Upper-Division Major Requirements.**

| Program(s) impacted | This course represents the purposeful duplication of an existing course in the BBA-Information Security and Assurance program (ISA 3210) and is used here as an Upper Division Major Requirement for the BS in Cybersecurity e-major. Key points: 1) There are no material changes to this course that would impact any other program. 2) The new course number is designed to facilitate e-major usage and usage of the established courses being used to support the proposed BS-Cybersecurity 3) The primary need is for variance in pre-requisites for courses in the BS-CYBR course sequence subsequent to the entry courses in the major. |

*In order to ensure that courses are added to their relevant program areas, please complete the Change to Program Name, Requirements or Policies form.
**Prefix**  CYBR  
**Number**  3210

**Title**  Client Systems Security

**Lecture Hours**  3

**Laboratory Hours**  0

**Credit Hours**  0

**Level of Course**  Undergraduate

**Prerequisites**  Completion of Programming Principles I (CS 1301 or CSE 1301) (or its transfer equivalent) with a grade of 'C' or better and admission to the Bachelor of Science in Cybersecurity E-Major program of study.

**Courses considered concurrent prerequisites:**  None

**Catalog Description**  This course explores client computer system technology, security, and control of vulnerabilities. It will include relevant computer architectures, and operating systems and will provide the detailed technical coverage necessary to protect computer information system clients by presenting the knowledge of client platform computer hardware components, client network devices and interfaces, as well as the structure and usage of common client operating system software from a cybersecurity perspective.

**Explain how this specific course fits within the context of the institution's mission.**  This course is a purposeful duplication of an existing course and relies on the established institutional context for that course.
A panel of interdisciplinary faculty members selected this course from existing KSU curriculum to include in this proposal so as to leverage the existing course work and faculty capabilities.

Graduate level courses only:
Please list all of the faculty-approved degree(s) required to teach this course

What is the substance of content in each prerequisite that commands its inclusion as a prerequisite to the proposed course?

The introductory course in programming is believed to be a valid indicator of readiness to advance to the level of academic preparation necessary to successfully complete this course.

What is the desired sequence of prerequisites?

What is the rationale for requiring the above sequence of prerequisites?
How often are the required prerequisites offered?

Every term

Give any other justification for the course.

How often will this course be offered?

Every semester/term

If other, please state frequency

Type of Delivery

☐ On Kennesaw Campus: Face-to-Face
☐ On Marietta Campus: Face-to-Face
☑ Fully at a distance- online
☐ Hybrid
☐ Off-site location

Name of off-site location (if applicable)

All sections of the course will be taught with the understanding that the following apply:

Learning Outcomes
Please see the attached syllabus.

**Course content**

Please see the attached syllabus.

**What instructional methodologies will be incorporated into the course to stimulate group process and educational outcomes?**

This course is a purposeful duplication of an existing course and relies on the established instructional methodologies for that course.

**Outline the plan for continuous course assessment.**

This course is a purposeful duplication of an existing course and relies on the established assessment methodologies for that course.

**Course Title for Label**

Client Systems Security

**Grades Allowed**

- [x] Regular
- [ ] S/U

**How many times can you re-enroll in this course to improve grade?**

1

**Is this course repeatable for credit?**

- [ ] Yes
- [x] No

**If yes, how many times may it be taken for credit?**

---

https://kennesaw.curriculog.com/proposal:4554/print
Will this course be included in General Education?* 
- Yes
- No

Will this course be included in Area F?* 
- Yes
- No

If this course is used to satisfy CPC, what areas?

Are special fees or tuition required for this course?* 
- Yes
- No

If yes, the academic department must submit the Request for New or Change in Course Fee form to the Office of Budget and Planning for approval. Special fees will not be assessed at the section if the request has not been approved. Special course fees are not retroactive. Please follow-up with each special course fee request in a timely manner.

I have attached a course syllabus.

Check to confirm.*

The institution has reviewed the University System of Georgia list of common course prefixes, numbers, and descriptions. (USG Academic Affairs Handbook, 2.4.0)

Is this course in compliance?* 
- Yes
- No

If this course is for an Area F major or degree program, does it meet the USG Area F guidelines for that program?* 
- Yes
- No
- NA

Note: USG Area F guidelines can be reviewed here.

Resources and Funding

What resources will be redirected to accommodate this course?*
What resources will be used to accommodate this course?
Explain the costs for each of the following items (personnel, computer technology, space, equipment, other).

<table>
<thead>
<tr>
<th>Resource</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Personnel*</td>
<td>Please see the attachments to the program application.</td>
</tr>
<tr>
<td>Computer Technology*</td>
<td>Please see the attachments to the program application.</td>
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<tr>
<td>Library Resources*</td>
<td>Please see the attachments to the program application.</td>
</tr>
<tr>
<td>Equipment*</td>
<td>Please see the attachments to the program application.</td>
</tr>
<tr>
<td>Space*</td>
<td>Please see the attachments to the program application.</td>
</tr>
<tr>
<td>Other Necessary Resources</td>
<td>Please see the attachments to the program application.</td>
</tr>
</tbody>
</table>

General Education or Area F ONLY

If this course has been approved as a General Education course requirement, Please attach the USG Core Course Proposal form found at http://curriculum.kennesaw.edu/resources/bor-forms-info.php

I have completed and attached the USG Core Course Proposal form.*
- [ ] Yes
- [ ] No
- [x] NA

Routing Information

- Department of Ownership: Institute for Cybersecurity Workforce Development
<table>
<thead>
<tr>
<th>Departmental Contact*</th>
<th>Herb Mattord</th>
</tr>
</thead>
</table>

Is this an education course from outside the Bagwell College of Education?*

- [ ] Yes
- [x] No
CYBR - 3300 - Management of Information Security in a Global Environment

New Course v3.0

General Information

This form serves as the approval process of record for new course proposals at Kennesaw State University.

For detailed assistance, please enable help text. Direct all questions concerning this and other forms to curriculog@kennesaw.edu.

Anticipated Implementation Date:

<table>
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<tr>
<th>Term/Year*</th>
<th>Fall 2017</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Type of Course*</th>
<th>Lecture</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Classification of Course*</th>
<th>Upper Division</th>
</tr>
</thead>
</table>

*If this course will satisfy a program requirement or elective, please list all programs and area of each program that will be impacted.

For example: BFA in Art, Upper-Division Major Requirements.

Program(s) impacted* This course represents cross-listing of an existing course in the BBA-Information Security and Assurance program (ISA 3300) and is used here as an Upper Division Major Requirement for the BS in Cybersecurity e-major.

There are no material changes to this course that would impact any other program. The new course number is designed to facilitate e-major usage and cross-listing of the established courses being used to support the proposed BS-Cybersecurity.

*In order to ensure that courses are added to their relevant program areas, please complete the Change to Program Name, Requirements or Policies form.
### Course Information

<table>
<thead>
<tr>
<th>Prefix*</th>
<th>CYBR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number*</td>
<td>3300</td>
</tr>
<tr>
<td><strong>Title</strong></td>
<td>Management of Information Security in a Global Environment</td>
</tr>
<tr>
<td><strong>Lecture Hours</strong></td>
<td>3</td>
</tr>
<tr>
<td><strong>Laboratory Hours</strong></td>
<td>0</td>
</tr>
<tr>
<td><strong>Credit Hours</strong></td>
<td>3</td>
</tr>
<tr>
<td><strong>Level of Course</strong></td>
<td>Undergraduate</td>
</tr>
</tbody>
</table>

#### Learning Support

**Prerequisites**
Completion of Principles of Cybersecurity (CYBR 3100) or equivalent with a grade of 'C' or better AND admission to the Bachelor of Science in Cybersecurity E-Major program of study.

**Courses considered concurrent prerequisites:**
None

#### Catalog Description
This course explores managerial aspects of cybersecurity and the administration of strategic planning processes as well as the policies, procedures, and staffing functions necessary to organize and administer the cybersecurity functions of an organization.

**Explain how this specific course fits within the context of the institution's mission.**
This course is a purposeful duplication of an existing course and relies on the established institutional context for that course.
A panel of interdisciplinary faculty members selected this course from existing KSU curriculum to include in this proposal so as to leverage the existing course work and faculty capabilities.

Graduate level courses only: Please list all of the faculty-approved degree(s) required to teach this course.

What is the substance of content in each prerequisite that commands its inclusion as a prerequisite to the proposed course?

The principles of security course is believed to be a valid indicator of readiness to advance to the level of academic preparation necessary to successfully complete this course.

What is the desired sequence of prerequisites?

What is the rationale for requiring the above sequence of prerequisites?
How often are the required prerequisites offered?

Give any other justification for the course.

How often will this course be offered?

<table>
<thead>
<tr>
<th>Type of Delivery*</th>
<th>Every semester/term</th>
<th>If other, please state frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>On Kennesaw Campus: Face-to-Face</td>
<td></td>
<td></td>
</tr>
<tr>
<td>On Marietta Campus: Face-to-Face</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fully at a distance- online</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hybrid</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Off-site location</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Name of off-site location (if applicable)

All sections of the course will be taught with the understanding that the following apply:

Learning Outcomes*
Please see the attached syllabus.

Course content* Please see the attached syllabus.

What instructional methodologies will be incorporated into the course to stimulate group process and educational outcomes?*

Outline the plan for continuous course assessment.*
This course is a purposeful duplication of an existing course and relies on the established assessment methodologies for that course.

Course Title for Label* Mgmnt of Inf Sec

Grades Allowed* ☑ Regular ☐ S/U

How many times can you re-enroll in this course to improve grade?*

Is this course repeatable for credit?* ☑ Yes ☐ No

If yes, how many times may it be taken for credit?
<table>
<thead>
<tr>
<th>Question</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Will this course be included in General Education?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Will this course be included in Area F?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>If this course is used to satisfy CPC, what areas?</td>
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<td></td>
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<td>Are special fees or tuition required for this course?</td>
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If yes, the academic department must submit the Request for New or Change in Course Fee form to the Office of Budget and Planning for approval. Special fees will not be assessed at the section if the request has not been approved. Special course fees are not retroactive. Please follow-up with each special course fee request in a timely manner.

- **Check to confirm.**
  - I have attached a course syllabus.

The institution has reviewed the University System of Georgia list of common course prefixes, numbers, and descriptions. (USG Academic Affairs Handbook, 2.4.(0))

<table>
<thead>
<tr>
<th>Question</th>
<th>Yes</th>
<th>No</th>
<th>NA</th>
</tr>
</thead>
<tbody>
<tr>
<td>If this course is for an Area F major or degree program, does it meet the USG Area F guidelines for that program?</td>
<td></td>
<td></td>
<td></td>
</tr>
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Note: USG Area F guidelines can be reviewed here.

### Resources and Funding

<table>
<thead>
<tr>
<th>Question</th>
<th>Yes</th>
<th>No</th>
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<tr>
<td>What resources will be redirected to accommodate this course?</td>
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<td></td>
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What resources will be used to accommodate this course?  
Explain the costs for each of the following items (personnel, computer technology, space, equipment, other).

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General Education or Area F ONLY

If this course has been approved as a General Education course requirement, Please attach the USG Core Course Proposal form found at http://curriculum.kennesaw.edu/resources/bor-forms-info.php

I have completed and attached the USG Core Course Proposal form.*

- [ ] Yes
- [ ] No
- [x] NA

Routing Information

Department of Ownership*

Institute for Cybersecurity Workforce Development
Departmental Contact

Is this an education course from outside the Bagwell College of Education?*

Yes
No
CYBR - 3396 - Cooperative Study
New Course v3.0

General Information

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Type of Course*

<table>
<thead>
<tr>
<th>Classification of Course*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Internship/Practicum</td>
</tr>
<tr>
<td>Upper Division</td>
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For example: BFA in Art, Upper-Division Major Requirements.

<table>
<thead>
<tr>
<th>Program(s) impacted*</th>
</tr>
</thead>
<tbody>
<tr>
<td>BS-CYBR upper division major elective</td>
</tr>
</tbody>
</table>

*In order to ensure that courses are added to their relevant program areas, please complete the Change to Program Name, Requirements or Policies form.

Course Information
Prefix*  CYBR

Number*  3396

Title*  Cooperative Study

Lecture Hours*  0

Laboratory Hours*  0

Credit Hours*  1-3

Level of Course*  Undergraduate

Learning Support Prerequisites

Prerequisites*  A grade of ‘C’ or better in Principles of Cybersecurity (CYBR 3100) or equivalent AND admission to the Bachelor of Science in Cybersecurity E-Major program of study AND approval of the coordinator of cooperative education/internships (KSU Career Services).

Courses considered concurrent prerequisites:

Course Co-requisites*  None

Catalog Description*  This is a supervised credit-earning work experience for a minimum of two academic semesters with a previously approved business firm, private agency, or government agency. For sophomore, junior, or senior students who wish to obtain on-the-job experience in conjunction with their academic education.

Explain how this specific course fits within the context of the institution’s mission.*  This course is a purposeful duplication of an existing course and relies on the established institutional context for that course.
A panel of interdisciplinary faculty members selected this course from existing KSU curriculum to include in this proposal so as to leverage the existing course work and faculty capabilities.

Graduate level courses only:
Please list all of the faculty-approved degree(s) required to teach this course.

The principles of security course is believed to be a valid indicator of readiness to advance to the level of academic preparation necessary to successfully complete this course.

What is the desired sequence of prerequisites?

What is the rationale for requiring the above sequence of prerequisites?
How often are the required prerequisites offered?

Give any other justification for the course.

How often will this course be offered?*

Every semester/term

If other, please state frequency

Type of Delivery*

☐ On Kennesaw Campus: Face-to-Face
☐ On Marietta Campus: Face-to-Face
☒ Fully at a distance- online
☐ Hybrid
☐ Off-site location

Name of off-site location (if applicable)

All sections of the course will be taught with the understanding that the following apply:

Learning Outcomes†
Please see the attached syllabus

<table>
<thead>
<tr>
<th>Course content*</th>
<th>Please see the attached syllabus</th>
</tr>
</thead>
<tbody>
<tr>
<td>What instructional methodologies will be incorporated into the course to stimulate group process and educational outcomes?*</td>
<td>N/A</td>
</tr>
</tbody>
</table>

| Outline the plan for continuous course assessment.* | N/A |

<table>
<thead>
<tr>
<th>Course Title for Label*</th>
<th>Cooperative Study</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Grades Allowed*</th>
<th>☐ Regular  ✔ S/U</th>
</tr>
</thead>
</table>

| How many times can you re-enroll in this course to improve grade?* | 0 |

<table>
<thead>
<tr>
<th>Is this course repeatable for credit?*</th>
<th>☐ Yes  ☐ No</th>
</tr>
</thead>
</table>

| If yes, how many times may it be taken for credit? | 2 |

https://kennesaw.curriculog.com/proposal:4579/print
### Will this course be included in General Education?*
- [ ] Yes
- [x] No

### Will this course be included in Area F?*
- [x] Yes
- [ ] No

### If this course is used to satisfy CPC, what areas?

### Are special fees or tuition required for this course?*
- [x] Yes
- [ ] No

If yes, the academic department must submit the Request for New or Change in Course Fee form to the Office of Budget and Planning for approval. Special fees will not be assessed at the section if the request has not been approved. Special course fees are not retroactive. Please follow-up with each special course fee request in a timely manner.

**Check to confirm.**
- [x] I have attached a course syllabus.

### The institution has reviewed the University System of Georgia list of common course prefixes, numbers, and descriptions. (USG Academic Affairs Handbook, 2.4.(0))

### Is this course in compliance?*
- [ ] Yes
- [x] No

### If this course is for an Area F major or degree program, does it meet the USG Area F guidelines for that program?*
- [ ] Yes
- [x] No
- [x] NA

Note: **USG Area F guidelines can be reviewed here.**

### Resources and Funding

### What resources will be redirected to accommodate this course?*

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https://kennesaw.curriculog.com/proposal:4579/print
What resources will be used to accommodate this course?

Explain the costs for each of the following items (personnel, computer technology, space, equipment, other).

<table>
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<th>Resource</th>
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<tr>
<td>Personnel*</td>
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<td>Please see the attachments to the program application.</td>
</tr>
<tr>
<td>Other Necessary Resources</td>
<td></td>
</tr>
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</table>

General Education or Area F ONLY

If this course has been approved as a General Education course requirement, Please attach the USG Core Course Proposal form found at [http://curriculum.kennesaw.edu/resources/bor-forms-info.php](http://curriculum.kennesaw.edu/resources/bor-forms-info.php)

I have completed and attached the USG Core Course Proposal form.*

- [ ] Yes
- [ ] No
- [x] NA

Routing Information

Department of Ownership* Institute for Cybersecurity Workforce Development
<table>
<thead>
<tr>
<th>Departmental Contact</th>
<th>Herb Mattord</th>
</tr>
</thead>
</table>

Is this an education course from outside the Bagwell College of Education?  
- Yes [ ]  
- No [ ]
General Information

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For detailed assistance, please enable help text. Direct all questions concerning this and other forms to curriculog@kennesaw.edu.

Anticipated Implementation Date:

- **Term/Year**: Fall 2017
- **Type of Course**: Internship/Practicum
- **Classification of Course**: Upper Division

*If this course will satisfy a program requirement or elective, please list all programs and area of each program that will be impacted.

**For example: BFA in Art, Upper-Division Major Requirements.**

- **Program(s) impacted**: BS CYBR upper division major elective

*In order to ensure that courses are added to their relevant program areas, please complete the Change to Program Name, Requirements or Policies form.

Course Information
<table>
<thead>
<tr>
<th><strong>Prefix</strong></th>
<th>CYBR</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Number</strong></td>
<td>3398</td>
</tr>
<tr>
<td><strong>Title</strong></td>
<td>Internship</td>
</tr>
<tr>
<td><strong>Lecture Hours</strong></td>
<td>0</td>
</tr>
<tr>
<td><strong>Laboratory Hours</strong></td>
<td>0</td>
</tr>
<tr>
<td><strong>Credit Hours</strong></td>
<td>1-9</td>
</tr>
<tr>
<td><strong>Level of Course</strong></td>
<td>Undergraduate</td>
</tr>
</tbody>
</table>

**Learning Support Prerequisites**

**Prerequisites**

A grade of ‘C’ or better in Principles of Cybersecurity (CYBR 3100) or equivalent and admission to the Bachelor of Science in Cybersecurity E-Major program of study as well approval of the coordinator of cooperative education/internships (KSU Career Services).

**Courses considered concurrent prerequisites:**

None

**Catalog Description**

A supervised credit-earning work experience for one academic semester with a previously approved business firm, private agency, or government agency. The work experience may not be with a current employer. The course will be graded on an S/U basis. The number of credit hours applicable to degree requirements is limited.

**Explain how this specific course fits within the context of the institution’s mission.**

This course is a purposeful duplication of an existing course and relies on the established institutional context for that course.
A panel of interdisciplinary faculty members selected this course from existing KSU curriculum to include in this proposal so as to leverage the existing course work and faculty capabilities.

Graduate level courses only:
Please list all of the faculty-approved degree(s) required to teach this course.

What is the substance of content in each prerequisite that commands its inclusion as a prerequisite to the proposed course?

The principles of security course is believed to be a valid indicator of readiness to advance to the level of academic preparation necessary to successfully complete this course.

What is the desired sequence of prerequisites?

What is the rationale for requiring the above sequence of prerequisites?
How often are the required prerequisites offered?

Give any other justification for the course.

How often will this course be offered?

Every semester/term

If other, please state frequency

Type of Delivery

- On Kennesaw Campus: Face-to-Face
- On Marietta Campus: Face-to-Face
- Fully at a distance- online
- Hybrid
- Off-site location

Name of off-site location (if applicable)

All sections of the course will be taught with the understanding that the following apply:

Learning Outcomes
Please see the attached syllabus.

**Course content**

Please see the attached syllabus.

**What instructional methodologies will be incorporated into the course to stimulate group process and educational outcomes?**

Please see the attached syllabus.

**Outline the plan for continuous course assessment.**

This course is a purposeful duplication of an existing course and relies on the established assessment methodologies for that course.

**Course Title for Label**

Internship

**Grades Allowed**

- Regular
- S/U

- How many times can you re-enroll in this course to improve grade?

0

**Is this course repeatable for credit?**

- Yes
- No

**If yes, how many times may it be taken for credit?**

2
Will this course be included in General Education?*  ☐ Yes  ☐ No
Will this course be included in Area F?*  ☐ Yes  ☐ No

If this course is used to satisfy CPC, what areas?

Are special fees or tuition required for this course?*  ☐ Yes  ☐ No

If yes, the academic department must submit the Request for New or Change in Course Fee form to the Office of Budget and Planning for approval. Special fees will not be assessed at the section if the request has not been approved. Special course fees are not retroactive. Please follow-up with each special course fee request in a timely manner.

Check to confirm.*  ☑ I have attached a course syllabus.

The institution has reviewed the University System of Georgia list of common course prefixes, numbers, and descriptions. (USG Academic Affairs Handbook, 2.4.(0))

Is this course in compliance?*  ☐ Yes  ☐ No

If this course is for an Area F major or degree program, does it meet the USG Area F guidelines for that program?*  ☐ Yes  ☐ No  ☑ NA

Note: USG Area F guidelines can be reviewed here.

Resources and Funding

What resources will be redirected to accommodate this course?*
Please see the attachments to the program application.

What resources will be used to accommodate this course?
Explain the costs for each of the following items (personnel, computer technology, space, equipment, other).

<table>
<thead>
<tr>
<th>Resource</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Personnel*</td>
<td>Please see the attachments to the program application.</td>
</tr>
<tr>
<td>Computer Technology*</td>
<td>Please see the attachments to the program application.</td>
</tr>
<tr>
<td>Library Resources*</td>
<td>Please see the attachments to the program application.</td>
</tr>
<tr>
<td>Equipment*</td>
<td>Please see the attachments to the program application.</td>
</tr>
<tr>
<td>Space*</td>
<td>Please see the attachments to the program application.</td>
</tr>
<tr>
<td>Other Necessary Resources</td>
<td>Please see the attachments to the program application.</td>
</tr>
</tbody>
</table>

General Education or Area F ONLY

If this course has been approved as a General Education course requirement, Please attach the USG Core Course Proposal form found at [http://curriculum.kennesaw.edu/resources/bor-forms-info.php](http://curriculum.kennesaw.edu/resources/bor-forms-info.php)

I have completed and attached the USG Core Course Proposal form.*

- [ ] Yes
- [ ] No
- [x] NA

Routing Information

Department of Ownership*

Institute for Cybersecurity Workforce Development
**Departmental Contact**  
Herb Mattord

<table>
<thead>
<tr>
<th>Question</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Is this an education course from outside the Bagwell College of Education?*</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
General Information

This form serves as the approval process of record for new course proposals at Kennesaw State University.

For detailed assistance, please enable help text. Direct all questions concerning this and other forms to curriculog@kennesaw.edu.

Anticipated Implementation Date:

Term/Year* Fall 2017

Type of Course* Lecture

Classification of Course* Upper Division

*If this course will satisfy a program requirement or elective, please list all programs and area of each program that will be impacted.

For example: BFA in Art, Upper-Division Major Requirements.

Program(s) impacted* This course represents cross-listing of an existing course in the BBA-Information Security and Assurance program (ISA 4200) and is used here as an Upper Division Major Requirement for the BS in Cybersecurity e-major.

There are no material changes to this course that would impact any other program. The new course number is designed to facilitate e-major usage and cross-listing of the established courses being used to support the proposed BS-Cybersecurity.

*In order to ensure that courses are added to their relevant program areas, please complete the Change to Program Name, Requirements or Policies form.

Course Information
Prefix* CYBR

Number* 4200

Title* Perimeter Defense

Lecture Hours* 3

Laboratory Hours* 0

Credit Hours* 3

Level of Course* Undergraduate

Learning Support Prerequisites

Prerequisites* A grade of ‘C’ or better in Network Security (CYBR 3200) or equivalent AND Data Communications & Networking (IT 4323) or equivalent AND admission to the Bachelor of Science in Cybersecurity E-Major program of study.

Courses considered concurrent prerequisites:

Course Co-requisites* None

Catalog Description* An exploration of cybersecurity techniques, tools, and technologies used to protect an organizations network infrastructure. The course will examine the evaluation, selection, deployment, and administration of firewall, VPN, IDPS, and other applications used to defend organizational networks and information assets from attacks.

Explain how this specific course fits within the context of the institution’s mission.* This course is a purposeful duplication of an existing course and relies on the established institutional context for that course.
A panel of interdisciplinary faculty members selected this course from existing KSU curriculum to include in this proposal so as to leverage the existing course work and faculty capabilities.

Graduate level courses only:
Please list all of the faculty-approved degree(s) required to teach this course

What is the substance of content in each prerequisite that commands its inclusion as a prerequisite to the proposed course?
The courses listed are believed to be a valid indicator of readiness to advance to the level of academic preparation necessary to successfully complete this course.

What is the desired sequence of prerequisites?
No sequence required.

What is the rationale for requiring the above sequence of prerequisites?
<table>
<thead>
<tr>
<th>How often are the required prerequisites offered?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Give any other justification for the course.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>How often will this course be offered?*</th>
<th>Every semester/term</th>
<th>If other, please state frequency</th>
</tr>
</thead>
</table>

**Type of Delivery**

- On Kennesaw Campus: Face-to-Face
- On Marietta Campus: Face-to-Face
- **Fully at a distance- online**
- Hybrid
- Off-site location

**Name of off-site location (if applicable)**

All sections of the course will be taught with the understanding that the following apply:

**Learning Outcomes**
**Course content**

Please see the attached syllabus.

**What instructional methodologies will be incorporated into the course to stimulate group process and educational outcomes?**

Please see the attached syllabus.

**Outline the plan for continuous course assessment.**

This course is a purposeful duplication of an existing course and relies on the established assessment methodologies for that course.

<table>
<thead>
<tr>
<th>Course Title for Label*</th>
<th>Perimeter Defense</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grades Allowed*</td>
<td>Regular ☑ S/U</td>
</tr>
</tbody>
</table>

**How many times can you re-enroll in this course to improve grade?** 1

**Is this course repeatable for credit?** ☐ Yes ☑ No

**If yes, how many times may it be taken for credit?**
Will this course be included in General Education?*
- Yes
- No

Will this course be included in Area F?*
- Yes
- No

If this course is used to satisfy CPC, what areas?

Are special fees or tuition required for this course?*
- Yes
- No

If yes, the academic department must submit the Request for New or Change in Course Fee form to the Office of Budget and Planning for approval. Special fees will not be assessed at the section if the request has not been approved. Special course fees are not retroactive. Please follow-up with each special course fee request in a timely manner.

Check to confirm.*
- Yes
- No

I have attached a course syllabus.

The institution has reviewed the University System of Georgia list of common course prefixes, numbers, and descriptions. (USG Academic Affairs Handbook, 2.4.(0))

Is this course in compliance?*
- Yes
- No

If this course is for an Area F major or degree program, does it meet the USG Area F guidelines for that program?*
- Yes
- No
- NA

Note: USG Area F guidelines can be reviewed here.

Resources and Funding

What resources will be redirected to accommodate this course?*

https://kennesaw.curriculog.com/proposal:4555/print
Please see the attachments to the program application.

**What resources will be used to accommodate this course?**

*Explain the costs for each of the following items (personnel, computer technology, space, equipment, other).*

<table>
<thead>
<tr>
<th>Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Personnel*</td>
<td>Please see the attachments to the program application.</td>
</tr>
<tr>
<td>Computer Technology*</td>
<td>Please see the attachments to the program application.</td>
</tr>
<tr>
<td>Library Resources*</td>
<td>Please see the attachments to the program application.</td>
</tr>
<tr>
<td>Equipment*</td>
<td>Please see the attachments to the program application.</td>
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<td>Space*</td>
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</tr>
<tr>
<td>Other Necessary Resources</td>
<td>Please see the attachments to the program application.</td>
</tr>
</tbody>
</table>

**General Education or Area F ONLY**

If this course has been approved as a General Education course requirement, Please attach the USG Core Course Proposal form found at [http://curriculum.kennesaw.edu/resources/bor-forms-info.php](http://curriculum.kennesaw.edu/resources/bor-forms-info.php)

I have completed and attached the USG Core Course Proposal form.*

- [ ] Yes
- [ ] No
- [x] NA

**Routing Information**

<table>
<thead>
<tr>
<th>Department of Ownership*</th>
<th>Institute for Cybersecurity Workforce Development</th>
</tr>
</thead>
<tbody>
<tr>
<td>Departmental Contact</td>
<td>Herb Mattord</td>
</tr>
<tr>
<td>---------------------</td>
<td>--------------</td>
</tr>
</tbody>
</table>

**Is this an education course from outside the Bagwell College of Education?**

- [ ] Yes
- [x] No
CYBR - 4220 - Server Systems Security

New Course v3.0

General Information

This form serves as the approval process of record for new course proposals at Kennesaw State University.

For detailed assistance, please enable help text. Direct all questions concerning this and other forms to curriculog@kennesaw.edu.

Anticipated Implementation Date:

<table>
<thead>
<tr>
<th>Term/Year*</th>
<th>Fall 2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type of Course*</td>
<td>Lecture</td>
</tr>
<tr>
<td>Classification of Course*</td>
<td>Upper Division</td>
</tr>
</tbody>
</table>

*If this course will satisfy a program requirement or elective, please list all programs and area of each program that will be impacted.

For example: BFA in Art, Upper-Division Major Requirements.

**Program(s) impacted**

This course represents cross-listing of an existing course in the BBA-Information Security and Assurance program (ISA 4220) and is used here as an Upper Division Major Requirement for the BS in Cybersecurity e-major.

There are no material changes to this course that would impact any other program. The new course number is designed to facilitate e-major usage and cross-listing of the established courses being used to support the proposed BS-Cybersecurity.

*In order to ensure that courses are added to their relevant program areas, please complete the Change to Program Name, Requirements or Policies form.

Course Information
**Prefix**  CYBR  
**Number**  4220

<table>
<thead>
<tr>
<th>Title</th>
<th>Server Systems Security</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lecture Hours</td>
<td>3</td>
</tr>
<tr>
<td>Laboratory Hours</td>
<td>0</td>
</tr>
<tr>
<td>Credit Hours</td>
<td>3</td>
</tr>
<tr>
<td>Level of Course</td>
<td>Undergraduate</td>
</tr>
</tbody>
</table>

**Learning Support Prerequisites**

**Prerequisites**  A grade of ‘C’ or better in Network Security (CYBR 3200) or equivalent and Linux/Unix Administration (IT 4423) or equivalent AND admission to the Bachelor of Science in Cybersecurity E-Major program of study.

**Courses considered concurrent prerequisites:**  None

**Catalog Description**  This course offers the detailed technical knowledge and skills necessary to protect computer server information system by presenting the knowledge of server platform computer hardware components, server network devices and interfaces, as well as the structure and usage of common server operating system software from a cybersecurity perspective. Additional learning regarding ongoing maintenance and operational issues of server computing systems will also be included.

**Explain how this specific course fits within the context of the institution’s mission.**  This course is a purposeful duplication of an existing course and relies on the established institutional context for that course.
A panel of interdisciplinary faculty members selected this course from existing KSU curriculum to include in this proposal so as to leverage the existing course work and faculty capabilities.

**Graduate level courses only:**
Please list all of the faculty-approved degree(s) required to teach this course.

**What is the substance of content in each prerequisite that commands its inclusion as a prerequisite to the proposed course?**

The courses listed are believed to be a valid indicator of readiness to advance to the level of academic preparation necessary to successfully complete this course.

**What is the desired sequence of prerequisites?**

No sequence is required.

**What is the rationale for requiring the above sequence of prerequisites?**
How often are the required prerequisites offered?

Every semester.

Give any other justification for the course.

How often will this course be offered?*

Every semester/term

If other, please state frequency

Type of Delivery*

☐ On Kennesaw Campus: Face-to-Face
☐ On Marietta Campus: Face-to-Face
☒ Fully at a distance- online
☐ Hybrid
☐ Off-site location

Name of off-site location (if applicable)

All sections of the course will be taught with the understanding that the following apply:
Please see the attached syllabus.

**Course content**

Please see the attached syllabus.

What instructional methodologies will be incorporated into the course to stimulate group process and educational outcomes?

Outline the plan for continuous course assessment.

This course is a purposeful duplication of an existing course and relies on the established assessment methodologies for that course.

---

**Course Title for Label**

Server Sys Sec

**Grades Allowed**

- Regular
- S/U

How many times can you re-enroll in this course to improve grade?

1

Is this course repeatable for credit?

Yes

If yes, how many times may it be taken for credit?

No
<table>
<thead>
<tr>
<th>Question</th>
<th>Yes</th>
<th>No</th>
<th>Check to confirm.*</th>
<th>I have attached a course syllabus.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Will this course be included in General Education?</td>
<td>Yes</td>
<td>No</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Will this course be included in Area F?</td>
<td>Yes</td>
<td>No</td>
<td></td>
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If yes, the academic department must submit the Request for New or Change in Course Fee form to the Office of Budget and Planning for approval. Special fees will not be assessed at the section if the request has not been approved. Special course fees are not retroactive. Please follow-up with each special course fee request in a timely manner.

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<tr>
<td>Is this course in compliance?</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
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<tr>
<th>Question</th>
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<th>No</th>
<th>NA</th>
</tr>
</thead>
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<tr>
<td>If this course is for an Area F major or degree program, does it meet the USG Area F guidelines for that program?</td>
<td>Yes</td>
<td>No</td>
<td>NA</td>
</tr>
</tbody>
</table>

Note: **USG Area F guidelines can be reviewed here.**

### Resources and Funding

<table>
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<tr>
<th>Question</th>
<th>Yes</th>
<th>No</th>
<th>NA</th>
</tr>
</thead>
<tbody>
<tr>
<td>What resources will be redirected to accommodate this course?</td>
<td></td>
<td></td>
<td></td>
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</table>
What resources will be used to accommodate this course?

Explain the costs for each of the following items (personnel, computer technology, space, equipment, other).

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<th>Description</th>
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General Education or Area F ONLY

If this course has been approved as a General Education course requirement, Please attach the USG Core Course Proposal form found at http://curriculum.kennesaw.edu/resources/bor-forms-info.php

I have completed and attached the USG Core Course Proposal form.*

- Yes
- No
- NA

Routing Information

Department of Ownership*

Institute for Cybersecurity Workforce Development
<table>
<thead>
<tr>
<th>Departmental Contact</th>
<th>Herb Mattord</th>
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<tbody>
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</tr>
</tbody>
</table>
CYBR - 4330 - Incident Response and Contingency Planning
New Course v3.0

General Information

This form serves as the approval process of record for new course proposals at Kennesaw State University.

For detailed assistance, please enable help text. Direct all questions concerning this and other forms to curriculog@kennesaw.edu.

Anticipated Implementation Date:

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<th>Fall 2017</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Type of Course*</th>
<th>Lecture</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Classification of Course*</th>
<th>Upper Division</th>
</tr>
</thead>
</table>

*If this course will satisfy a program requirement or elective, please list all programs and area of each program that will be impacted.

For example: BFA in Art, Upper-Division Major Requirements.

Program(s) impacted*

This course represents cross-listing of an existing course in the BBA-Information Security and Assurance program (ISA 4330) and is used here as an Upper Division Major Requirement for the BS in Cybersecurity e-major.

There are no material changes to this course that would impact any other program. The new course number is designed to facilitate e-major usage and cross-listing of the established courses being used to support the proposed BS-Cybersecurity.

*In order to ensure that courses are added to their relevant program areas, please complete the Change to Program Name, Requirements or Policies form.

Course Information
Prefix*  CYBR  
Number*  4330

Title*  Incident Response and Contingency Planning

Lecture Hours*  3

Laboratory Hours*  0

Credit Hours*  3

Level of Course*  Undergraduate

Learning Support

Prerequisites*  A grade of ‘C’ or better in Management of Information Security in a Global Environment (CYBR 3300) or equivalent AND admission to the Bachelor of Science in Cybersecurity E-Major program of study.

Courses considered concurrent prerequisites:

Course Co-requisites*  None

Catalog Description*  This course offers coverage of the cybersecurity contingency planning. It includes the detailed aspects of incident response planning, disaster recovery planning, and business continuity planning. Developing and executing plans to deal with incidents in the organization is a critical function in cybersecurity. This course focuses on the planning processes for the execution of response to human and non-human incidents in compliance with these policies.

Explain how this specific course fits within the context of the institution’s mission.*  This course is a purposeful duplication of an existing course and relies on the established institutional context for that course.
Explain assessment findings which led to course development.*

A panel of interdisciplinary faculty members selected this course from existing KSU curriculum to include in this proposal so as to leverage the existing course work and faculty capabilities.

Graduate level courses only:
Please list all of the faculty-approved degree(s) required to teach this course

What is the substance of content in each prerequisite that commands its inclusion as a prerequisite to the proposed course?*

The management of security course includes specific content required for successfully completion this course.

What is the desired sequence of prerequisites?

What is the rationale for requiring the above sequence of prerequisites?
How often are the required prerequisites offered?

Give any other justification for the course.

<table>
<thead>
<tr>
<th>How often will this course be offered?</th>
<th>If other, please state frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>[ ] Every semester/term</td>
<td></td>
</tr>
<tr>
<td>[ ] If other, please state frequency</td>
<td></td>
</tr>
</tbody>
</table>

Type of Delivery*

- [ ] On Kennesaw Campus: Face-to-Face
- [X] On Marietta Campus: Face-to-Face
- [ ] Fully at a distance - online
- [ ] Hybrid
- [ ] Off-site location

Name of off-site location (if applicable)

All sections of the course will be taught with the understanding that the following apply:

Learning Outcomes*

---

https://kennesaw.curriculog.com/proposal:4559/print
Please see the attached syllabus.

Course content

What instructional methodologies will be incorporated into the course to stimulate group process and educational outcomes?

This course is a purposeful duplication of an existing course and relies on the established assessment methodologies for that course.

Outline the plan for continuous course assessment.

This course is a purposeful duplication of an existing course and relies on the established assessment methodologies for that course.

Course Title for Label

Inc. Resp & Cont Plng

Grades Allowed

Regular

S/U

How many times can you re-enroll in this course to improve grade?

1

Is this course repeatable for credit?

Yes

No

If yes, how many times may it be taken for credit?
<table>
<thead>
<tr>
<th>Question</th>
<th>Option 1</th>
<th>Option 2</th>
</tr>
</thead>
<tbody>
<tr>
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<td>No</td>
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If yes, the academic department must submit the Request for New or Change in Course Fee form to the Office of Budget and Planning for approval. Special fees will not be assessed at the section if the request has not been approved. Special course fees are not retroactive. Please follow-up with each special course fee request in a timely manner.

- Check to confirm.*
  - I have attached a course syllabus.

The institution has reviewed the University System of Georgia list of common course prefixes, numbers, and descriptions. (USG Academic Affairs Handbook, 2.4.(0))

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<tbody>
<tr>
<td>Is this course in compliance?</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>

- If this course is for an Area F major or degree program, does it meet the USG Area F guidelines for that program?*  
  - Yes
  - No
  - NA

Note: **USG Area F guidelines can be reviewed here.**

### Resources and Funding

<table>
<thead>
<tr>
<th>Question</th>
<th>Option 1</th>
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<td>Other Necessary Resources</td>
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</table>

General Education or Area F ONLY

If this course has been approved as a General Education course requirement, Please attach the USG Core Course Proposal form found at http://curriculum.kennesaw.edu/resources/bor-forms-info.php

I have completed and attached the USG Core Course Proposal form:  
- Yes  
- No  
- NA

Routing Information

Department of Ownership: Institute for Cybersecurity Workforce Development
<table>
<thead>
<tr>
<th>Departmental Contact*</th>
<th>Herb Mattord</th>
</tr>
</thead>
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<tr>
<th>Is this an education course from outside the Bagwell College of Education?*</th>
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</thead>
<tbody>
<tr>
<td>Yes</td>
</tr>
<tr>
<td>No</td>
</tr>
</tbody>
</table>
CYBR - 4350 - Management of Digital Forensics and eDiscovery

New Course v3.0

General Information

This form serves as the approval process of record for new course proposals at Kennesaw State University.

For detailed assistance, please enable help text. Direct all questions concerning this and other forms to curriculog@kennesaw.edu.

Anticipated Implementation Date:

Term/Year* Fall 2017

Type of Course* Lecture

Classification of Course* Upper Division

*If this course will satisfy a program requirement or elective, please list all programs and area of each program that will be impacted.

For example: BFA in Art, Upper-Division Major Requirements.

Program(s) impacted* This course represents cross-listing of an existing course in the BBA-Information Security and Assurance program (ISA 4350) and is used here as an Upper Division Major Requirement for the BS in Cybersecurity e-major.

There are no material changes to this course that would impact any other program. The new course number is designed to facilitate e-major usage and cross-listing of the established courses being used to support the proposed BS-Cybersecurity.

*In order to ensure that courses are added to their relevant program areas, please complete the Change to Program Name, Requirements or Policies form.

Course Information
<table>
<thead>
<tr>
<th>Field</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Prefix</strong></td>
<td>CYBR</td>
</tr>
<tr>
<td><strong>Number</strong></td>
<td>4350</td>
</tr>
<tr>
<td><strong>Title</strong></td>
<td>Management of Digital Forensics and eDiscovery</td>
</tr>
<tr>
<td><strong>Lecture Hours</strong></td>
<td>3</td>
</tr>
<tr>
<td><strong>Laboratory Hours</strong></td>
<td>0</td>
</tr>
<tr>
<td><strong>Credit Hours</strong></td>
<td>3</td>
</tr>
<tr>
<td><strong>Level of Course</strong></td>
<td>Undergraduate</td>
</tr>
<tr>
<td><strong>Prerequisites</strong></td>
<td>A grade of ‘C’ or better in Client Systems Security (CYBR 3210) or equivalent and Operating Systems Concepts &amp; Administration (IT 3423) or equivalent AND admission to the Bachelor of Science in Cybersecurity E-Major program of study.</td>
</tr>
<tr>
<td><strong>Course Co-requisites</strong></td>
<td>None</td>
</tr>
<tr>
<td><strong>Catalog Description</strong></td>
<td>This course explores the key issues in digital forensics: the detection, isolation and response to security breaches and attacks. It provides specific procedures required to respond to a computer crime incident and also provides coverage of the entire digital forensic sequence and the eDiscovery process within organizations.</td>
</tr>
<tr>
<td><strong>Explain how this specific course fits within the context of the institution’s mission.</strong></td>
<td>This course is a purposeful duplication of an existing course and relies on the established institutional context for that course.</td>
</tr>
</tbody>
</table>
A panel of interdisciplinary faculty members selected this course from existing KSU curriculum to include in this proposal so as to leverage the existing course work and faculty capabilities.

Graduate level courses only:
Please list all of the faculty-approved degree(s) required to teach this course.

The courses listed are believed to be a valid indicator of readiness to advance to the level of academic preparation necessary to successfully complete this course.

Sequence of pre-reqs is not a factor.
<table>
<thead>
<tr>
<th>How often are the required prerequisites offered?</th>
<th>Each semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Give any other justification for the course.</td>
<td></td>
</tr>
<tr>
<td>How often will this course be offered?</td>
<td>Every semester/term</td>
</tr>
<tr>
<td>Type of Delivery*</td>
<td></td>
</tr>
<tr>
<td>☐ On Kennesaw Campus: Face-to-Face</td>
<td></td>
</tr>
<tr>
<td>☐ On Marietta Campus: Face-to-Face</td>
<td></td>
</tr>
<tr>
<td>☑ Fully at a distance- online</td>
<td></td>
</tr>
<tr>
<td>☐ Hybrid</td>
<td></td>
</tr>
<tr>
<td>☐ Off-site location</td>
<td></td>
</tr>
</tbody>
</table>

Name of off-site location (if applicable)

All sections of the course will be taught with the understanding that the following apply:

Learning Outcomes*
Please see the attached syllabus.

Course content* Please see the attached syllabus.

What instructional methodologies will be incorporated into the course to stimulate group process and educational outcomes?*

Outline the plan for continuous course assessment.*

This course is a purposeful duplication of an existing course and relies on the established assessment methodologies for that course.

Course Title for Label* Mgmt Dig Forensics & E-Discv

Grades Allowed* ☑ Regular ☐ S/U

How many times can you re-enroll in this course to improve grade?*

Is this course repeatable for credit?* ☑ Yes ☐ No

If yes, how many times may it be taken for credit?
Will this course be included in General Education?*  
Yes ☐ No ☐

Will this course be included in Area F?*  
Yes ☐ No ☐

If this course is used to satisfy CPC, what areas?

Are special fees or tuition required for this course?*  
Yes ☐ No ☐

If yes, the academic department must submit the Request for New or Change in Course Fee form to the Office of Budget and Planning for approval. Special fees will not be assessed at the section if the request has not been approved. Special course fees are not retroactive. Please follow-up with each special course fee request in a timely manner.

Check to confirm.*  
☐ I have attached a course syllabus.

The institution has reviewed the University System of Georgia list of common course prefixes, numbers, and descriptions. (USG Academic Affairs Handbook, 2.4.(0))

Is this course in compliance?*  
Yes ☐ No ☐

If this course is for an Area F major or degree program, does it meet the USG Area F guidelines for that program?*  
Yes ☐ No ☐ NA ☐

Note: USG Area F guidelines can be reviewed here.

---

Resources and Funding

What resources will be redirected to accommodate this course?*
What resources will be used to accommodate this course?

Explain the costs for each of the following items (personnel, computer technology, space, equipment, other).

<table>
<thead>
<tr>
<th>Resource</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Personnel*</td>
<td>Please see the attachments to the program application.</td>
</tr>
<tr>
<td>Computer Technology*</td>
<td>Please see the attachments to the program application.</td>
</tr>
<tr>
<td>Library Resources*</td>
<td>Please see the attachments to the program application.</td>
</tr>
<tr>
<td>Equipment*</td>
<td>Please see the attachments to the program application.</td>
</tr>
<tr>
<td>Space*</td>
<td>Please see the attachments to the program application.</td>
</tr>
<tr>
<td>Other Necessary Resources</td>
<td>Please see the attachments to the program application.</td>
</tr>
</tbody>
</table>

General Education or Area F ONLY

If this course has been approved as a General Education course requirement, Please attach the USG Core Course Proposal form found at http://curriculum.kennesaw.edu/resources/bor-forms-info.php

I have completed and attached the USG Core Course Proposal form.

- Yes
- No
- NA

Routing Information

Department of Ownership*

Institute for Cybersecurity Workforce Development
<table>
<thead>
<tr>
<th>Departmental Contact</th>
<th>Herb Mattord</th>
</tr>
</thead>
</table>

**Is this an education course from outside the Bagwell College of Education?**
- [ ] Yes
- [x] No
General Information

This form serves as the approval process of record for new course proposals at Kennesaw State University.

For detailed assistance, please enable help text. Direct all questions concerning this and other forms to curriculog@kennesaw.edu.

Anticipated Implementation Date:

<table>
<thead>
<tr>
<th>Term/Year*</th>
<th>Fall 2017</th>
</tr>
</thead>
</table>

Type of Course*  Lecture

Classification of Course*  Upper Division

*If this course will satisfy a program requirement or elective, please list all programs and area of each program that will be impacted.

For example: BFA in Art, Upper-Division Major Requirements.

Program(s) impacted*  BS-CYBR upper division major elective.

*In order to ensure that courses are added to their relevant program areas, please complete the Change to Program Name, Requirements or Policies form.

Course Information
<table>
<thead>
<tr>
<th>Prefix*</th>
<th>CYBR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number*</td>
<td>4400</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Title*</th>
<th>Directed Study</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lecture Hours*</td>
<td>0</td>
</tr>
<tr>
<td>Laboratory Hours*</td>
<td>0</td>
</tr>
<tr>
<td>Credit Hours*</td>
<td>1-3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Level of Course*</th>
<th>Undergraduate</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Learning Support Prerequisites</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Prerequisites*</th>
<th>Approval of Instructor and Department Chair.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Courses considered concurrent prerequisites:</th>
</tr>
</thead>
</table>

| Course Co-requisites* | None |

<table>
<thead>
<tr>
<th>Catalog Description*</th>
</tr>
</thead>
</table>

This course enables the study of special topics of an advanced nature that are not in the regular course offerings. Students will complete a research project on a topic in the subject area of cybersecurity supervised by a faculty member. Credit hours vary from one to three depending on the nature and content of the project student involved. Up to three credits may be applied to the major area.

<table>
<thead>
<tr>
<th>Explain how this specific course fits within the context of the institution's mission.*</th>
</tr>
</thead>
</table>

This course is a purposeful duplication of an existing course and relies on the established institutional context for that course.

<table>
<thead>
<tr>
<th>Explain assessment findings which</th>
</tr>
</thead>
</table>
A panel of interdisciplinary faculty members selected this course from existing KSU curriculum to include in this proposal so as to leverage the existing course work and faculty capabilities.

Graduate level courses only:
Please list all of the faculty-approved degree(s) required to teach this course.

What is the substance of content in each prerequisite that commands its inclusion as a prerequisite to the proposed course?* Approval of the Chair is required.

What is the desired sequence of prerequisites?

What is the rationale for requiring the above sequence of prerequisites?
<table>
<thead>
<tr>
<th>How often are the required prerequisites offered?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Give any other justification for the course.</td>
</tr>
<tr>
<td>How often will this course be offered?*</td>
</tr>
<tr>
<td>If other, please state frequency</td>
</tr>
</tbody>
</table>

### Type of Delivery*
- [ ] On Kennesaw Campus: Face-to-Face
- [ ] On Marietta Campus: Face-to-Face
- [x] Fully at a distance- online
- [ ] Hybrid
- [ ] Off-site location

### Name of off-site location (if applicable)

All sections of the course will be taught with the understanding that the following apply:

### Learning Outcomes†
Course content* Varies by offering.

What instructional methodologies will be incorporated into the course to stimulate group process and educational outcomes?*

Outline the plan for continuous course assessment.*

Course Title for Label* Directed Studies

Grades Allowed* ✓ Regular ☐ S/U

How many times can you re-enroll in this course to improve grade?*

Is this course repeatable for credit?* ✓ Yes ☐ No

If yes, how many times may it be taken for credit?
Will this course be included in General Education?*  Yes □  No □

Will this course be included in Area F?*  Yes □  No □

If this course is used to satisfy CPC, what areas?

Are special fees or tuition required for this course?*  Yes □  No □

If yes, the academic department must submit the Request for New or Change in Course Fee form to the Office of Budget and Planning for approval. Special fees will not be assessed at the section if the request has not been approved. Special course fees are not retroactive. Please follow-up with each special course fee request in a timely manner.

Check to confirm.*  I have attached a course syllabus.

The institution has reviewed the University System of Georgia list of common course prefixes, numbers, and descriptions. (USG Academic Affairs Handbook, 2.4.(0))

Is this course in compliance?*  Yes □  No □

If this course is for an Area F major or degree program, does it meet the USG Area F guidelines for that program?*  Yes □  No □  NA □

Note: USG Area F guidelines can be reviewed here.

Resources and Funding

What resources will be redirected to accommodate this course?*
What resources will be used to accommodate this course? Explain the costs for each of the following items (personnel, computer technology, space, equipment, other).

<table>
<thead>
<tr>
<th>Resource</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Personnel</strong></td>
<td>Please see the attachments to the program application.</td>
</tr>
<tr>
<td><strong>Computer Technology</strong></td>
<td>Please see the attachments to the program application.</td>
</tr>
<tr>
<td><strong>Library Resources</strong></td>
<td>Please see the attachments to the program application.</td>
</tr>
<tr>
<td><strong>Equipment</strong></td>
<td>Please see the attachments to the program application.</td>
</tr>
<tr>
<td><strong>Space</strong></td>
<td>Please see the attachments to the program application.</td>
</tr>
<tr>
<td><strong>Other Necessary Resources</strong></td>
<td>Please see the attachments to the program application.</td>
</tr>
</tbody>
</table>

**General Education or Area F ONLY**

If this course has been approved as a General Education course requirement, Please attach the USG Core Course Proposal form found at http://curriculum.kennesaw.edu/resources/bor-forms-info.php

I have completed and attached the USG Core Course Proposal form.

- [ ] Yes
- [ ] No
- [X] NA

**Routing Information**

Department of Ownership: 

Institute for Cybersecurity Workforce Development
<table>
<thead>
<tr>
<th>Departmental Contact</th>
<th>Herb Mattord</th>
</tr>
</thead>
</table>

**Is this an education course from outside the Bagwell College of Education?**

- [ ] Yes
- [x] No

---

12/7/2016

https://kennesaw.curriculog.com/proposal:4577/print
CYBR - 4490 - Special Topics in Cybersecurity
New Course v3.0

General Information

This form serves as the approval process of record for new course proposals at Kennesaw State University.

For detailed assistance, please enable help text. Direct all questions concerning this and other forms to curriculog@kennesaw.edu.

Anticipated Implementation Date:

<table>
<thead>
<tr>
<th>Term/Year*</th>
<th>Fall 2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type of Course*</td>
<td>Lecture</td>
</tr>
<tr>
<td>Classification of Course*</td>
<td>Upper Division</td>
</tr>
</tbody>
</table>

*If this course will satisfy a program requirement or elective, please list all programs and area of each program that will be impacted.

For example: BFA in Art, Upper-Division Major Requirements.

| Program(s) impacted* | BS-CYBR upper division elective |

*In order to ensure that courses are added to their relevant program areas, please complete the Change to Program Name, Requirements or Policies form.

Course Information
<table>
<thead>
<tr>
<th><strong>Prefix</strong></th>
<th>CYBR</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Number</strong></td>
<td>4490</td>
</tr>
</tbody>
</table>

**Title**  
Special Topics in Cybersecurity

**Lecture Hours**  
1-3

**Laboratory Hours**  
0

**Credit Hours**  
1-3

**Level of Course**  
Undergraduate

**Prerequisites**  
Junior/Senior Standing, additional requirement will vary by topic.

**Course Co-requisites**  
None

**Catalog Description**  
Special topics proposed by faculty, approved by the Department Chair. Offered on a demand basis. Can be repeated for credit if not duplicate topic.

**Explain how this specific course fits within the context of the institution's mission.**  
Allows flexible delivery of topical courses.
This is a standard course in Departments across KSU.

Graduate level courses only:
Please list all of the faculty-approved degree(s) required to teach this course.

What is the substance of content in each prerequisite that commands its inclusion as a prerequisite to the proposed course?*

What is the desired sequence of prerequisites? Varies by offering.

What is the rationale for requiring the above sequence of prerequisites?
How often are the required prerequisites offered?

Give any other justification for the course.

How often will this course be offered?*  Other

If other, please state frequency  Based on need and demand.

Type of Delivery*  On Kennesaw Campus: Face-to-Face  On Marietta Campus: Face-to-Face  Fully at a distance- online  Hybrid  Off-site location

Name of off-site location (if applicable)

All sections of the course will be taught with the understanding that the following apply:

Learning Outcomes*
## Course content

Varies by offering.

### What instructional methodologies will be incorporated into the course to stimulate group process and educational outcomes?

Varies by offering.

## Outline the plan for continuous course assessment.

Varies by offering.

## Course Title for Label

Special Topics

## Grades Allowed

- Regular
- S/U

### How many times can you re-enroll in this course to improve grade?

0

## Is this course repeatable for credit?

- Yes
- No

## If yes, how many times may it be taken for credit?

2
<table>
<thead>
<tr>
<th>Will this course be included in General Education?*</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Will this course be included in Area F?*</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>If this course is used to satisfy CPC, what areas?</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Are special fees or tuition required for this course?*</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>

If yes, the academic department must submit the Request for New or Change in Course Fee form to the Office of Budget and Planning for approval. Special fees will not be assessed at the section if the request has not been approved. Special course fees are not retroactive. Please follow-up with each special course fee request in a timely manner.

- **Check to confirm.** I have attached a course syllabus.

The institution has reviewed the University System of Georgia list of common course prefixes, numbers, and descriptions. (USG Academic Affairs Handbook, 2.4.(0))

<table>
<thead>
<tr>
<th>Is this course in compliance?*</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>If this course is for an Area F major or degree program, does it meet the USG Area F guidelines for that program?*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
</tr>
</tbody>
</table>

Note: [USG Area F guidelines can be reviewed here.](https://kennesaw.curriculog.com/proposal:4578/print)

### Resources and Funding

What resources will be redirected to accommodate this course?*
What resources will be used to accommodate this course?

Explain the costs for each of the following items (personnel, computer technology, space, equipment, other).

<table>
<thead>
<tr>
<th>Resource</th>
<th>Instruction</th>
</tr>
</thead>
<tbody>
<tr>
<td>Personnel*</td>
<td>Please see the attachments to the program application.</td>
</tr>
<tr>
<td>Computer Technology*</td>
<td>Please see the attachments to the program application.</td>
</tr>
<tr>
<td>Library Resources*</td>
<td>Please see the attachments to the program application.</td>
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<td>Equipment*</td>
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<tr>
<td>Space*</td>
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</tr>
<tr>
<td>Other Necessary Resources</td>
<td>Please see the attachments to the program application.</td>
</tr>
</tbody>
</table>

**General Education or Area F ONLY**

If this course has been approved as a General Education course requirement, Please attach the USG Core Course Proposal form found at [http://curriculum.kennesaw.edu/resources/bor-forms-info.php](http://curriculum.kennesaw.edu/resources/bor-forms-info.php)

I have completed and attached the USG Core Course Proposal form.*

- [ ] Yes
- [ ] No
- [x] NA

**Routing Information**

Department of Ownership* Institute for Cybersecurity Workforce Development
<table>
<thead>
<tr>
<th>Departmental Contact</th>
<th>Herb Mattord</th>
</tr>
</thead>
</table>

**Is this an education course from outside the Bagwell College of Education?**

- [ ] Yes
- [x] No
**CYBR - 4700 - Emerging Issues in Cybersecurity**

**New Course v3.0**

### General Information

This form serves as the approval process of record for new course proposals at Kennesaw State University.

For detailed assistance, please enable help text. Direct all questions concerning this and other forms to curriculog@kennesaw.edu.

**Anticipated Implementation Date:**

<table>
<thead>
<tr>
<th>Term/Year*</th>
<th>Fall 2017</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Type of Course*</th>
<th>Lecture</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Classification of Course*</th>
<th>Upper Division</th>
</tr>
</thead>
</table>

*If this course will satisfy a program requirement or elective, please list all programs and area of each program that will be impacted.

**For example: BFA in Art, Upper-Division Major Requirements.**

<table>
<thead>
<tr>
<th>Program(s) impacted*</th>
</tr>
</thead>
<tbody>
<tr>
<td>BS CYBR, Upper-Division Elective</td>
</tr>
</tbody>
</table>

*In order to ensure that courses are added to their relevant program areas, please complete the Change to Program Name, Requirements or Policies form.

### Course Information
Prefix* CYBR

Number* 4700

Title* Emerging Issues in Cybersecurity

Lecture Hours* 3

Laboratory Hours* 0

Credit Hours* 3

Level of Course* Undergraduate

Learning Support

Prerequisites*

Prerequisites* A grade of ‘C’ or better in CYBR 3100 and permission of Department.

Courses considered concurrent prerequisites:

Course Co-requisites* None

Catalog Description* This course explores emerging issues in cybersecurity. The content of each offering will vary based on current issues and concerns in the cybersecurity industry.

Explain how this specific course fits within the context of the institution’s mission.* This course will allow the BS CYBR to include emerging issues and technologies allowing the course content to be rapidly adjusted to the current events in the industry.
A panel of interdisciplinary faculty members selected this course from existing KSU curriculum to include in this proposal so as to leverage the existing course work and faculty capabilities.

Sufficient preparation to teach this course will be either a Masters-level or Doctoral-level degree in any security-related or computing-related field OR a minimum of five years practical experience in cybersecurity employment or consulting in the topic being covered by the course. This course is one that would benefit from being taught by a practicing professional in the field of cybersecurity.

The principles of security course is believed to be a valid indicator of readiness to advance to the level of academic preparation necessary to successfully complete this course.

This course is a purposeful duplication of an existing course and relies on the established pre- and co-requisite flows.
How often are the required prerequisites offered?

Give any other justification for the course.

<table>
<thead>
<tr>
<th>How often will this course be offered?</th>
<th>Other</th>
<th>If other, please state frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>☐ On Kennesaw Campus: Face-to-Face</td>
<td></td>
<td>On demand</td>
</tr>
<tr>
<td>☐ On Marietta Campus: Face-to-Face</td>
<td></td>
<td></td>
</tr>
<tr>
<td>☑ Fully at a distance- online</td>
<td></td>
<td></td>
</tr>
<tr>
<td>☐ Hybrid</td>
<td></td>
<td></td>
</tr>
<tr>
<td>☐ Off-site location</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Type of Delivery

Name of off-site location (if applicable)

All sections of the course will be taught with the understanding that the following apply:

Learning Outcomes
Course content* Unique to each offering.

What instructional methodologies will be incorporated into the course to stimulate group process and educational outcomes?*

Outline the plan for continuous course assessment.*

Course Title for Label* Emerg Issues in Cybersecurity

Grades Allowed* ☑ Regular ☐ S/U

How many times can you re-enroll in this course to improve grade?* 1

Is this course repeatable for credit?* ☑ Yes ☐ No

If yes, how many times may it be taken for credit?
<table>
<thead>
<tr>
<th>Question</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Will this course be included in General Education?</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>Will this course be included in Area F?</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>If this course is used to satisfy CPC, what areas?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Are special fees or tuition required for this course?</td>
<td>☐</td>
<td>☐</td>
</tr>
</tbody>
</table>

If yes, the academic department must submit the Request for New or Change in Course Fee form to the Office of Budget and Planning for approval. Special fees will not be assessed at the section if the request has not been approved. Special course fees are not retroactive. Please follow-up with each special course fee request in a timely manner.

Check to confirm.*

I have attached a course syllabus.

The institution has reviewed the University System of Georgia list of common course prefixes, numbers, and descriptions. (USG Academic Affairs Handbook, 2.4.(0))

<table>
<thead>
<tr>
<th>Question</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Is this course in compliance?</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>If this course is for an Area F major or degree program, does it meet the USG Area F guidelines for that program?</td>
<td>☐</td>
<td>☐</td>
</tr>
</tbody>
</table>

Note: **USG Area F guidelines can be reviewed here.**

### Resources and Funding

<table>
<thead>
<tr>
<th>Question</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>What resources will be redirected to accommodate this course?</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
What resources will be used to accommodate this course?
*Explain the costs for each of the following items (personnel, computer technology, space, equipment, other).

<table>
<thead>
<tr>
<th>Resource</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Personnel</td>
<td>Please see the BS-CYBR program proposal supporting materials.</td>
</tr>
<tr>
<td>Computer Technology</td>
<td>Please see the BS-CYBR program proposal supporting materials.</td>
</tr>
<tr>
<td>Library Resources</td>
<td>Please see the BS-CYBR program proposal supporting materials.</td>
</tr>
<tr>
<td>Equipment</td>
<td>Please see the BS-CYBR program proposal supporting materials.</td>
</tr>
<tr>
<td>Space</td>
<td>Please see the BS-CYBR program proposal supporting materials.</td>
</tr>
<tr>
<td>Other Necessary Resources</td>
<td>Please see the BS-CYBR program proposal supporting materials.</td>
</tr>
<tr>
<td>Departmental Contact*</td>
<td>Herb Mattord</td>
</tr>
<tr>
<td>-----------------------</td>
<td>--------------</td>
</tr>
</tbody>
</table>

**Is this an education course from outside the Bagwell College of Education?**

- Yes
- No
CYBR - 4810 - Cyber Defense

New Course v3.0

General Information

This form serves as the approval process of record for new course proposals at Kennesaw State University.

For detailed assistance, please enable help text. Direct all questions concerning this and other forms to curriculog@kennesaw.edu.

Anticipated Implementation Date:

<table>
<thead>
<tr>
<th>Term/Year*</th>
<th>Fall 2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type of Course*</td>
<td>Lecture</td>
</tr>
<tr>
<td>Classification of Course*</td>
<td>Upper Division</td>
</tr>
</tbody>
</table>

*If this course will satisfy a program requirement or elective, please list all programs and area of each program that will be impacted.

For example: BFA in Art, Upper-Division Major Requirements.

Program(s) impacted*  This course represents the purposeful duplication of an existing course in the BBA-Information Security and Assurance program (ISA 4810) and is used here as an Upper Division Major Requirement for the BS in Cybersecurity e-major.

Key points:
1) There are no material changes to this course that would impact any other program.
2) The new course number is designed to facilitate e-major usage and usage of the established courses being used to support the proposed BS-Cybersecurity
3) The primary need is for variance in pre-requisites for courses in the BS-CYBR course sequence subsequent to the entry courses in the major.

*In order to ensure that courses are added to their relevant program areas, please complete the Change to Program Name, Requirements or Policies form.

Course Information

https://kennesaw.curriculog.com/proposal:4560/print
<table>
<thead>
<tr>
<th><strong>Prefix</strong></th>
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</thead>
<tbody>
<tr>
<td>CYBR</td>
<td>4810</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Title</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Cyber Defense</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Lecture Hours</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Laboratory Hours</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Credit Hours</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Level of Course</strong></th>
<th>Undergraduate</th>
<th>Graduate</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th><strong>Learning Support</strong></th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th><strong>Prerequisites</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>A grade of ‘C’ or better in Server Systems Security (CYBR 4220) or equivalent AND Perimeter Defense (CYBR 4200) or equivalent AND admission to the Bachelor of Science in Cybersecurity E-Major program of study.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Courses considered concurrent prerequisites:</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Catalog Description</strong></th>
</tr>
</thead>
</table>

This course is a semester-long simulation using the virtual systems, software, practices, and procedures necessary for the protection of computer systems and networks. Students learn how to protect networks and systems as deployed in a typical organization. Course topics include policy and practice associated with the protection of communication resources, intrusion detection systems, firewalls, and use of various tools for system and network protection.

<table>
<thead>
<tr>
<th><strong>Explain how this specific course fits within the context of the institution’s mission.</strong></th>
</tr>
</thead>
</table>

This course is a purposeful duplication of an existing course and relies on the established institutional context for that course.
A panel of interdisciplinary faculty members selected this course from existing KSU curriculum to include in this proposal so as to leverage the existing course work and faculty capabilities.

Graduate level courses only: Please list all of the faculty-approved degree(s) required to teach this course

What is the substance of content in each prerequisite that commands its inclusion as a prerequisite to the proposed course?

This course is a purposeful duplication of an existing course and relies on the established pre- and co-requisite flows.

What is the desired sequence of prerequisites?

No preference.

What is the rationale for requiring the above sequence of prerequisites?
How often are the required prerequisites offered?

Give any other justification for the course.

How often will this course be offered?*

| Every semester/term | If other, please state frequency |

Type of Delivery*

- [ ] On Kennesaw Campus: Face-to-Face
- [ ] On Marietta Campus: Face-to-Face
- [x] Fully at a distance - online
- [ ] Hybrid
- [ ] Off-site location

Name of off-site location (if applicable)

All sections of the course will be taught with the understanding that the following apply:

Learning Outcomes†
Please see the attached syllabus.

**Course content**

This course is a purposeful duplication of an existing course and relies on the established instructional methodologies for that course.

What instructional methodologies will be incorporated into the course to stimulate group process and educational outcomes?

**Outline the plan for continuous course assessment.**

This course is a purposeful duplication of an existing course and relies on the established assessment methodologies for that course.

**Course Title for Label**

Cyber Defense

**Grades Allowed**

Regular [ ]  S/U [ ]

How many times can you re-enroll in this course to improve grade?

1

Is this course repeatable for credit?

Yes [ ]  No [ ]

If yes, how many times may it be taken for credit?
Will this course be included in General Education?*
- Yes
- No

Will this course be included in Area F?*
- Yes
- No

If this course is used to satisfy CPC, what areas?

Are special fees or tuition required for this course?*
- Yes
- No

If yes, the academic department must submit the Request for New or Change in Course Fee form to the Office of Budget and Planning for approval. Special fees will not be assessed at the section if the request has not been approved. Special course fees are not retroactive. Please follow-up with each special course fee request in a timely manner.

Check to confirm.*
- I have attached a course syllabus.

The institution has reviewed the University System of Georgia list of common course prefixes, numbers, and descriptions. (USG Academic Affairs Handbook, 2.4.(0))

Is this course in compliance?*
- Yes
- No

If this course is for an Area F major or degree program, does it meet the USG Area F guidelines for that program?*
- Yes
- No
- NA

Note: USG Area F guidelines can be reviewed here.

Resources and Funding

What resources will be redirected to accommodate this course?*

https://kennesaw.curriculog.com/proposal:4560/print
What resources will be used to accommodate this course?

Explain the costs for each of the following items (personnel, computer technology, space, equipment, other).

<table>
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<tr>
<th>Resource</th>
<th>Cost Information</th>
</tr>
</thead>
<tbody>
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<td>Please see the attachments to the program application.</td>
</tr>
<tr>
<td>Computer Technology*</td>
<td>Please see the attachments to the program application.</td>
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</tr>
<tr>
<td>Equipment*</td>
<td>Please see the attachments to the program application.</td>
</tr>
<tr>
<td>Space*</td>
<td>Please see the attachments to the program application.</td>
</tr>
<tr>
<td>Other Necessary Resources</td>
<td>Please see the attachments to the program application.</td>
</tr>
</tbody>
</table>

General Education or Area F ONLY

If this course has been approved as a General Education course requirement, Please attach the USG Core Course Proposal form found at http://curriculum.kennesaw.edu/resources/bor-forms-info.php

I have completed and attached the USG Core Course Proposal form.*  
☐ Yes  ☐ No  ☑ NA

Routing Information

<table>
<thead>
<tr>
<th>Department of Ownership*</th>
<th>Institute for Cybersecurity Workforce Development</th>
</tr>
</thead>
</table>
Departmental Contact*  Herb Mattord

Is this an education course from outside the Bagwell College of Education?*

- Yes
- No
CYBR - 4833 - Wireless Security

New Course v3.0

General Information

This form serves as the approval process of record for new course proposals at Kennesaw State University.

For detailed assistance, please enable help text. Direct all questions concerning this and other forms to curriculog@kennesaw.edu.

Anticipated Implementation Date:

Term/Year*  Fall 2017

Type of Course*  Lecture

Classification of Course*  Upper Division

*If this course will satisfy a program requirement or elective, please list all programs and area of each program that will be impacted.

For example: BFA in Art, Upper-Division Major Requirements.

Program(s) impacted*

This course represents the purposeful duplication of an existing course in the BS-Information Technology program (IT 4833) and is used here as an Upper Division Major Requirement for the BS in Cybersecurity e-major.

Key points:
1) There are no material changes to this course that would impact any other program.
2) The new course number is designed to facilitate e-major usage and usage of the established courses being used to support the proposed BS-Cybersecurity
The primary need is for variance in pre-requisites for courses in the BS-CYBR course sequence subsequent to the entry courses in the major.

*In order to ensure that courses are added to their relevant program areas, please complete the Change to Program Name, Requirements or Policies form.

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<table>
<thead>
<tr>
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<th>CYBR</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Number</strong></td>
<td>4833</td>
</tr>
<tr>
<td><strong>Title</strong></td>
<td>Wireless Security</td>
</tr>
<tr>
<td><strong>Lecture Hours</strong></td>
<td>3</td>
</tr>
<tr>
<td><strong>Laboratory Hours</strong></td>
<td>0</td>
</tr>
<tr>
<td><strong>Credit Hours</strong></td>
<td>3</td>
</tr>
</tbody>
</table>

**Level of Course**: Undergraduate

**Prerequisites**: A grade of ‘C’ or better in Network Security (CYBR 3200) or equivalent and Data Communications & Networking (IT 4323) or equivalent AND admission to the Bachelor of Science in Cybersecurity E-Major program of study.

**Courses considered concurrent prerequisites**: None


**Explain how this specific course fits within the context of the institution’s mission**: This course is a purposeful duplication of an existing course and relies on the established institutional context for that course.
A panel of interdisciplinary faculty members selected this course from existing KSU curriculum to include in this proposal so as to leverage the existing course work and faculty capabilities.

Graduate level courses only:
Please list all of the faculty-approved degree(s) required to teach this course

* What is the substance of content in each prerequisite that commands its inclusion as a prerequisite to the proposed course?*

The courses listed are believed to be a valid indicator of readiness to advance to the level of academic preparation necessary to successfully complete this course.

* What is the desired sequence of prerequisites?*

No preference.

* What is the rationale for requiring the above sequence of prerequisites?*
How often are the required prerequisites offered?

Give any other justification for the course.

How often will this course be offered?*  

<table>
<thead>
<tr>
<th>Type of Delivery*</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>On Kennesaw Campus: Face-to-Face</td>
<td>☐</td>
</tr>
<tr>
<td>On Marietta Campus: Face-to-Face</td>
<td>☐</td>
</tr>
<tr>
<td>Fully at a distance - online</td>
<td>☑</td>
</tr>
<tr>
<td>Hybrid</td>
<td>☐</td>
</tr>
<tr>
<td>Off-site location</td>
<td>☐</td>
</tr>
</tbody>
</table>

If other, please state frequency  

Name of off-site location (if applicable)  

All sections of the course will be taught with the understanding that the following apply:

Learning Outcomes†  

https://kennesaw.curriculog.com/proposal:4564/print
Please see the attached syllabus.

**Course content**
Please see the attached syllabus.

**What instructional methodologies will be incorporated into the course to stimulate group process and educational outcomes?**
This course is a purposeful duplication of an existing course and relies on the established instructional methodologies for that course.

**Outline the plan for continuous course assessment.**
This course is a purposeful duplication of an existing course and relies on the established assessment methodologies for that course.

**Course Title for Label**
Wireless Security

**Grades Allowed**
- [ ] Regular
- [ ] S/U

**How many times can you re-enroll in this course to improve grade?**
1

**Is this course repeatable for credit?**
- [ ] Yes
- [x] No

**If yes, how many times may it be taken for credit?**
<table>
<thead>
<tr>
<th>Question</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Will this course be included in General Education?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Will this course be included in Area F?</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>If this course is used to satisfy CPC, what areas?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Are special fees or tuition required for this course?</td>
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<td>No</td>
</tr>
<tr>
<td>If yes, the academic department must submit the Request for New or Change in Course Fee form to the Office of Budget and Planning for approval. Special fees will not be assessed at the section if the request has not been approved. Special course fees are not retroactive. Please follow-up with each special course fee request in a timely manner.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>The institution has reviewed the University System of Georgia list of common course prefixes, numbers, and descriptions. (USG Academic Affairs Handbook, 2.4.0)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Is this course in compliance?</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>If this course is for an Area F major or degree program, does it meet the USG Area F guidelines for that program?</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>

**Note:** USG Area F guidelines can be reviewed here.

### Resources and Funding

What resources will be redirected to accommodate this course?
What resources will be used to accommodate this course?

Explain the costs for each of the following items (personnel, computer technology, space, equipment, other).

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<td>Space*</td>
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<td>Other Necessary Resources</td>
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</tr>
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</table>

General Education or Area F ONLY

If this course has been approved as a General Education course requirement, Please attach the USG Core Course Proposal form found at http://curriculum.kennesaw.edu/resources/bor-forms-info.php

I have completed and attached the USG Core Course Proposal form.*
- [ ] Yes
- [ ] No
- [✓] NA

Routing Information

Department of Ownership* | Institute for Cybersecurity Workforce Development
<table>
<thead>
<tr>
<th>Departmental Contact</th>
<th>Herb Mattord</th>
</tr>
</thead>
</table>

**Is this an education course from outside the Bagwell College of Education?**

- [ ] Yes
- [x] No
CYBR - 4843 - Ethical Hacking for Effective Defense

New Course v3.0

General Information

This form serves as the approval process of record for new course proposals at Kennesaw State University.

For detailed assistance, please enable help text. Direct all questions concerning this and other forms to curriculog@kennesaw.edu.

Anticipated Implementation Date:

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</tr>
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<table>
<thead>
<tr>
<th>Type of Course*</th>
<th>Lecture</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Classification of Course*</th>
<th>Upper Division</th>
</tr>
</thead>
</table>

*If this course will satisfy a program requirement or elective, please list all programs and area of each program that will be impacted.

For example: BFA in Art, Upper-Division Major Requirements.

Program(s) impacted*
This course represents the purposeful duplication of an existing course in the BS-Information Technology program (IT 4843) and is used here as an Upper Division Major Requirement for the BS in Cybersecurity e-major.

Key points:
1) There are no material changes to this course that would impact any other program.
2) The new course number is designed to facilitate e-major usage and usage of the established courses being used to support the proposed BS-Cybersecurity
The primary need is for variance in pre-requisites for courses in the BS-CYBR course sequence subsequent to the entry courses in the major.

*In order to ensure that courses are added to their relevant program areas, please complete the Change to Program Name, Requirements or Policies form.

Course Information
<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td><strong>Number</strong></td>
<td><strong>4843</strong></td>
</tr>
<tr>
<td><strong>Title</strong></td>
<td>Ethical Hacking for Effective Defense</td>
</tr>
<tr>
<td><strong>Lecture Hours</strong></td>
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</tr>
<tr>
<td><strong>Laboratory Hours</strong></td>
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</tr>
<tr>
<td><strong>Credit Hours</strong></td>
<td>0</td>
</tr>
<tr>
<td><strong>Level of Course</strong></td>
<td>Undergraduate</td>
</tr>
</tbody>
</table>

**Learning Support Prerequisites**

**Prerequisites**
A grade of ‘C’ or better in Network Security (CYBR 3200) or equivalent and Data Communications & Networking (IT 4323) or equivalent AND admission to the Bachelor of Science in Cybersecurity E-Major program of study.

**Catalog Description**
This course explores the identification and validation of network and system vulnerabilities by taking an adversarial approach to network, system, and data access. Topics include network attacks and defenses, Operating System and application vulnerabilities, social engineering attacks, and malware. Ethical, legal implications of network attacks are also discussed.

**Explain how this specific course fits within the context of the institution’s mission.**
This course is a purposeful duplication of an existing course and relies on the established institutional context for that course.
A panel of interdisciplinary faculty members selected this course from existing KSU curriculum to include in this proposal so as to leverage the existing course work and faculty capabilities.

**Explain assessment findings which led to course development.**

**Graduate level courses only:**

Please list all of the faculty-approved degree(s) required to teach this course.

**What is the substance of content in each prerequisite that commands its inclusion as a prerequisite to the proposed course?**

The courses listed are believed to be a valid indicator of readiness to advance to the level of academic preparation necessary to successfully complete this course.

**What is the desired sequence of prerequisites?**

No preference.

**What is the rationale for requiring the above sequence of prerequisites?**
How often are the required prerequisites offered?

Give any other justification for the course.

How often will this course be offered?*  
Every year  |  If other, please state frequency

Type of Delivery*  
☐ On Kennesaw Campus: Face-to-Face  
☐ On Marietta Campus: Face-to-Face  
☑ Fully at a distance- online  
☐ Hybrid  
☐ Off-site location

Name of off-site location (if applicable)

All sections of the course will be taught with the understanding that the following apply:

Learning Outcomes*
Please see the attached syllabus.

**Course content**

Please see the attached syllabus.

What instructional methodologies will be incorporated into the course to stimulate group process and educational outcomes?

This course is a purposeful duplication of an existing course and relies on the established instructional methodologies for that course.

Outline the plan for continuous course assessment.

This course is a purposeful duplication of an existing course and relies on the established assessment methodologies for that course.

**Course Title for Label**

Ethical Hacking

**Grades Allowed**

- [x] Regular
- [ ] S/U

How many times can you re-enroll in this course to improve grade?

1

Is this course repeatable for credit?

- [ ] Yes
- [x] No

If yes, how many times may it be taken for credit?
Will this course be included in General Education? 
- Yes
- No

Will this course be included in Area F? 
- Yes
- No

If this course is used to satisfy CPC, what areas?

Are special fees or tuition required for this course? 
- Yes
- No

If yes, the academic department must submit the Request for New or Change in Course Fee form to the Office of Budget and Planning for approval. Special fees will not be assessed at the section if the request has not been approved. Special course fees are not retroactive. Please follow-up with each special course fee request in a timely manner.

Check to confirm.* 
- Yes
- No

I have attached a course syllabus.

The institution has reviewed the University System of Georgia list of common course prefixes, numbers, and descriptions. (USG Academic Affairs Handbook, 2.4.(0))

Is this course in compliance? 
- Yes
- No

If this course is for an Area F major or degree program, does it meet the USG Area F guidelines for that program? 
- Yes
- No
- NA

Note: USG Area F guidelines can be reviewed here.

Resources and Funding

What resources will be redirected to accommodate this course? *
Please see the attachments to the program application.

What resources will be used to accommodate this course?

Explain the costs for each of the following items (personnel, computer technology, space, equipment, other).

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<td>Other Necessary Resources</td>
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General Education or Area F ONLY

If this course has been approved as a General Education course requirement, Please attach the USG Core Course Proposal form found at http://curriculum.kennesaw.edu/resources/bor-forms-info.php

I have completed and attached the USG Core Course Proposal form. *
- [ ] Yes
- [ ] No
- [x] NA

Routing Information

<table>
<thead>
<tr>
<th>Department of Ownership</th>
<th>Institute for Cybersecurity Workforce Development</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Departmental Contact</strong></td>
<td>Herb Mattord</td>
</tr>
<tr>
<td>-------------------------</td>
<td>--------------</td>
</tr>
</tbody>
</table>

**Is this an education course from outside the Bagwell College of Education?**

- [ ] Yes
- [x] No
CYBR - 4853 - Computer Forensics
New Course v3.0

General Information

This form serves as the approval process of record for new course proposals at Kennesaw State University.

For detailed assistance, please enable help text. Direct all questions concerning this and other forms to curriculog@kennesaw.edu.

Anticipated Implementation Date:

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<tr>
<th>Term/Year*</th>
<th>Fall 2017</th>
</tr>
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<tbody>
<tr>
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<td>Lecture</td>
</tr>
<tr>
<td>Classification of Course*</td>
<td>Upper Division</td>
</tr>
</tbody>
</table>

*If this course will satisfy a program requirement or elective, please list all programs and area of each program that will be impacted.

For example: BFA in Art, Upper-Division Major Requirements.

Program(s) impacted*

This course represents the purposeful duplication of an existing course in the BS-Information Technology program (IT 4853) and is used here as an Upper Division Major Requirement for the BS in Cybersecurity e-major.

Key points:
1) There are no material changes to this course that would impact any other program.
2) The new course number is designed to facilitate e-major usage and usage of the established courses being used to support the proposed BS-Cybersecurity
The primary need is for variance in pre-requisites for courses in the BS-CYBR course sequence subsequent to the entry courses in the major.

*In order to ensure that courses are added to their relevant program areas, please complete the Change to Program Name, Requirements or Policies form.

Course Information
Prefix* CYBR

Number* 4853

Title* Computer Forensics

Lecture Hours* 3

Laboratory Hours* 0

Credit Hours* 3

Level of Course* Undergraduate

Learning Support

Prerequisites* A grade of ‘C’ or better in Client Systems Security (CYBR 3210) or equivalent and Operating Systems Concepts & Administration (IT 3423) or equivalent AND admission to the Bachelor of Science in Cybersecurity E-Major program of study.

Courses considered concurrent prerequisites: None

Catalog Description* This course is an exploration of the tools and techniques used to conduct digital investigations. It will include digital evidence collection, recovery, and analysis. Topics are Legal issues relating to digital evidence, recovery of deleted files and discovery of hidden information, reconstruction of user activity from e-mail, temporary Internet files and cached data, assessment of the integrity of system memory and process architecture to reveal malicious code.

Explain how this specific course fits within the context of the institution’s mission.* This course is a purposeful duplication of an existing course and relies on the established institutional context for that course.
A panel of interdisciplinary faculty members selected this course from existing KSU curriculum to include in this proposal so as to leverage the existing course work and faculty capabilities.

Graduate level courses only:
Please list all of the faculty-approved degree(s) required to teach this course

What is the substance of content in each prerequisite that commands its inclusion as a prerequisite to the proposed course?*

The courses listed are believed to be a valid indicator of readiness to advance to the level of academic preparation necessary to successfully complete this course.

What is the desired sequence of prerequisites?

What is the rationale for requiring the above sequence of prerequisites?
How often are the required prerequisites offered?

Give any other justification for the course.

How often will this course be offered?*  Every semester/term  If other, please state frequency

Type of Delivery*  
- On Kennesaw Campus: Face-to-Face
- On Marietta Campus: Face-to-Face
- Fully at a distance- online
- Hybrid
- Off-site location

Name of off-site location (if applicable)

All sections of the course will be taught with the understanding that the following apply:

Learning Outcomes†
Please see the attached syllabus.

<table>
<thead>
<tr>
<th>Course content*</th>
<th>Please see the attached syllabus.</th>
</tr>
</thead>
<tbody>
<tr>
<td>What instructional methodologies will be incorporated into the course to stimulate group process and educational outcomes?*</td>
<td></td>
</tr>
<tr>
<td>This course is a purposeful duplication of an existing course and relies on the established instructional methodologies for that course.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Outline the plan for continuous course assessment.*</th>
</tr>
</thead>
<tbody>
<tr>
<td>This course is a purposeful duplication of an existing course and relies on the established assessment methodologies for that course.</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Course Title for Label*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computer Forensics</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Grades Allowed*</th>
</tr>
</thead>
<tbody>
<tr>
<td>☑️ Regular ☐ S/U</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>How many times can you re-enroll in this course to improve grade?*</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Is this course repeatable for credit?*</th>
</tr>
</thead>
<tbody>
<tr>
<td>☑️ Yes ☐ No</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>If yes, how many times may it be taken for credit?</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>
Will this course be included in General Education?*  
☐ Yes ☐ No

Will this course be included in Area F?*  
☐ Yes ☐ No

If this course is used to satisfy CPC, what areas?

Are special fees or tuition required for this course?*  
☐ Yes ☐ No

If yes, the academic department must submit the Request for New or Change in Course Fee form to the Office of Budget and Planning for approval. Special fees will not be assessed at the section if the request has not been approved. Special course fees are not retroactive. Please follow-up with each special course fee request in a timely manner.

Check to confirm.*  
☐ I have attached a course syllabus.

The institution has reviewed the University System of Georgia list of common course prefixes, numbers, and descriptions. (USG Academic Affairs Handbook, 2.4.0)

Is this course in compliance?*  
☐ Yes ☐ No

If this course is for an Area F major or degree program, does it meet the USG Area F guidelines for that program?*  
☐ Yes ☐ No ☑ NA

Note: USG Area F guidelines can be reviewed here.

Resources and Funding

What resources will be redirected to accommodate this course?*
What resources will be used to accommodate this course?

Explain the costs for each of the following items (personnel, computer technology, space, equipment, other).

<table>
<thead>
<tr>
<th>Category</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Personnel*</td>
<td>Please see the attachments to the program application.</td>
</tr>
<tr>
<td>Computer Technology*</td>
<td>Please see the attachments to the program application.</td>
</tr>
<tr>
<td>Library Resources*</td>
<td>Please see the attachments to the program application.</td>
</tr>
<tr>
<td>Equipment*</td>
<td>Please see the attachments to the program application.</td>
</tr>
<tr>
<td>Space*</td>
<td>Please see the attachments to the program application.</td>
</tr>
<tr>
<td>Other Necessary</td>
<td>Please see the attachments to the program application.</td>
</tr>
</tbody>
</table>

**General Education or Area F ONLY**

If this course has been approved as a General Education course requirement, Please attach the USG Core Course Proposal form found at [http://curriculum.kennesaw.edu/resources/bor-forms-info.php](http://curriculum.kennesaw.edu/resources/bor-forms-info.php)

I have completed and attached the USG Core Course Proposal form.*

- [ ] Yes
- [ ] No
- [x] NA

**Routing Information**

Department of Ownership* | Institute for Cybersecurity Workforce Development
<table>
<thead>
<tr>
<th>Departmental Contact*</th>
<th>Herb Mattord</th>
</tr>
</thead>
</table>

**Is this an education course from outside the Bagwell College of Education?**

- Yes
- No
CYBR - 4883 - Infrastructure Defense
New Course v3.0

General Information

This form serves as the approval process of record for new course proposals at Kennesaw State University.

For detailed assistance, please enable help text. Direct all questions concerning this and other forms to curriculog@kennesaw.edu.

Anticipated Implementation Date:

<table>
<thead>
<tr>
<th>Term/Year*</th>
<th>Fall 2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type of Course*</td>
<td>Lecture</td>
</tr>
<tr>
<td>Classification of Course*</td>
<td>Upper Division</td>
</tr>
</tbody>
</table>

*If this course will satisfy a program requirement or elective, please list all programs and area of each program that will be impacted.

For example: BFA in Art, Upper-Division Major Requirements.

Program(s) impacted* This course represents the purposeful duplication of an existing course in the BS-Information Technology program (IT 4883) and is used here as an Upper Division Major Requirement for the BS in Cybersecurity e-major.

Key points:
1) There are no material changes to this course that would impact any other program.
2) The new course number is designed to facilitate e-major usage and usage of the established courses being used to support the proposed BS-Cybersecurity
The primary need is for variance in pre-requisites for courses in the BS-CYBR course sequence subsequent to the entry courses in the major.

*In order to ensure that courses are added to their relevant program areas, please complete the Change to Program Name, Requirements or Policies form.

Course Information
<table>
<thead>
<tr>
<th><strong>Prefix</strong></th>
<th>CYBR</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Number</strong></td>
<td>4883</td>
</tr>
</tbody>
</table>

**Title**  
Infrastructure Defense

| **Lecture Hours** | 3 |
| **Laboratory Hours** | 0 |
| **Credit Hours** | 3 |

**Level of Course**  
Undergraduate

**Learning Support Prerequisites**

| **Prerequisites**  
A grade of ‘C’ or better in Network Security (CYBR 3200) or equivalent and Data Communications & Networking (IT 4323) or equivalent AND admission to the Bachelor of Science in Cybersecurity E-Major program of study. |

**Courses considered concurrent prerequisites:**

| **Course Co-requisites** | None |

**Catalog Description**  
This course is an overview of the cybersecurity aspects of infrastructure defensive techniques. It will include tools and techniques for vulnerability assessment as well as penetration testing processes. There will be a focus on processes and techniques for improving the defensive capability of that infrastructure.

**Explain how this specific course fits within the context of the institution’s mission.**  
This course is a purposeful duplication of an existing course and relies on the established institutional context for that course.
A panel of interdisciplinary faculty members selected this course from existing KSU curriculum to include in this proposal so as to leverage the existing course work and faculty capabilities.

Graduate level courses only:
Please list all of the faculty-approved degree(s) required to teach this course

What is the substance of content in each prerequisite that commands its inclusion as a prerequisite to the proposed course?

The courses listed are believed to be a valid indicator of readiness to advance to the level of academic preparation necessary to successfully complete this course.

What is the desired sequence of prerequisites?

What is the rationale for requiring the above sequence of prerequisites?
How often are the required prerequisites offered?

Give any other justification for the course.

How often will this course be offered?

Every semester/term

If other, please state frequency

Type of Delivery*

☐ On Kennesaw Campus: Face-to-Face
☐ On Marietta Campus: Face-to-Face
☐ Fully at a distance- online
☐ Hybrid
☐ Off-site location

Name of off-site location (if applicable)

All sections of the course will be taught with the understanding that the following apply:

Learning Outcomes†
Please see the attached syllabus.

**Course content**

Please see the attached syllabus.

What instructional methodologies will be incorporated into the course to stimulate group process and educational outcomes?*  

This course is a purposeful duplication of an existing course and relies on the established instructional methodologies for that course.

**Outline the plan for continuous course assessment.**  

This course is a purposeful duplication of an existing course and relies on the established assessment methodologies for that course.

**Course Title for Label**  

Infrastructure Defense

**Grades Allowed**

- Regular
- S/U

How many times can you re-enroll in this course to improve grade?*

1

Is this course repeatable for credit?*

- Yes
- No

If yes, how many times may it be taken for credit?

---

https://kennesaw.curriculog.com/proposal:4575/print
Will this course be included in General Education?*  Yes ☐  No ☐

Will this course be included in Area F?*  Yes ☐  No ☐

If this course is used to satisfy CPC, what areas?

Are special fees or tuition required for this course?*  Yes ☐  No ☐

If yes, the academic department must submit the Request for New or Change in Course Fee form to the Office of Budget and Planning for approval. Special fees will not be assessed at the section if the request has not been approved. Special course fees are not retroactive. Please follow-up with each special course fee request in a timely manner.

I have attached a course syllabus.

Check to confirm.*  ☑

The institution has reviewed the University System of Georgia list of common course prefixes, numbers, and descriptions. (USG Academic Affairs Handbook, 2.4.(0))

Is this course in compliance?*  Yes ☐  No ☐

If this course is for an Area F major or degree program, does it meet the USG Area F guidelines for that program?*  ☐ Yes  ☐ No  ☑ NA

Note: USG Area F guidelines can be reviewed here.

Resources and Funding

What resources will be redirected to accommodate this course?*
Please see the attachments to the program application.

What resources will be used to accommodate this course?

Explain the costs for each of the following items (personnel, computer technology, space, equipment, other).

<table>
<thead>
<tr>
<th>Resource</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Personnel*</td>
<td>Please see the attachments to the program application.</td>
</tr>
<tr>
<td>Computer Technology*</td>
<td>Please see the attachments to the program application.</td>
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<td>Library Resources*</td>
<td>Please see the attachments to the program application.</td>
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<tr>
<td>Equipment*</td>
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<tr>
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<td>Please see the attachments to the program application.</td>
</tr>
<tr>
<td>Other Necessary Resources</td>
<td>Please see the attachments to the program application.</td>
</tr>
</tbody>
</table>

General Education or Area F ONLY

If this course has been approved as a General Education course requirement, Please attach the USG Core Course Proposal form found at http://curriculum.kennesaw.edu/resources/bor-forms-info.php

I have completed and attached the USG Core Course Proposal form.*

- [ ] Yes
- [ ] No
- [x] NA

Routing Information

Department of Ownership* Institute for Cybersecurity Workforce Development
<table>
<thead>
<tr>
<th>Departmental Contact*</th>
<th>Herb Mattord</th>
</tr>
</thead>
</table>

**Is this an education course from outside the Bagwell College of Education?**

- [ ] Yes
- [x] No
CYBR - 4893 - Internet of Things: Applications and Security
New Course v3.0

General Information

This form serves as the approval process of record for new course proposals at Kennesaw State University.

For detailed assistance, please enable help text. Direct all questions concerning this and other forms to curriculog@kennesaw.edu.

Anticipated Implementation Date:

Term/Year*  
Fall 2017

Type of Course*  
Lecture

Classification of Course*  
Upper Division

*If this course will satisfy a program requirement or elective, please list all programs and area of each program that will be impacted.

For example: BFA in Art, Upper-Division Major Requirements.

Program(s) impacted*  
This course represents the purposeful duplication of an existing course in the BS-Information Technology program (IT 4893) and is used here as an Upper Division Major Requirement for the BS in Cybersecurity e-major.

Key points:
1) There are no material changes to this course that would impact any other program.
2) The new course number is designed to facilitate e-major usage and usage of the established courses being used to support the proposed BS-Cybersecurity

The primary need is for variance in pre-requisites for courses in the BS-CYBR course sequence subsequent to the entry courses in the major.

*In order to ensure that courses are added to their relevant program areas, please complete the Change to Program Name, Requirements or Policies form.

Course Information

https://kennesaw.curriculog.com/proposal:4961/print
<table>
<thead>
<tr>
<th>Prefix*</th>
<th>CYBR</th>
<th>Number*</th>
<th>4893</th>
</tr>
</thead>
<tbody>
<tr>
<td>Title*</td>
<td>Internet of Things: Applications and Security</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lecture Hours*</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Laboratory Hours*</td>
<td>0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Credit Hours*</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Level of Course*</td>
<td>Undergraduate (graduate)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Learning Support Prerequisites</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prerequisites*</td>
<td>A grade of ‘C’ or better in Network Security (CYBR 3200) or equivalent and Data Communications &amp; Networking (IT4323) or equivalent and admission to the Bachelor of Science in Cybersecurity E-Major program of study.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Courses considered concurrent prerequisites:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Course Co-requisites*</td>
<td>None</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Catalog Description*</td>
<td>This course introduces core knowledge and skills required to develop, design and secure IoT solutions. Students will analyze requirements, develop human-device interaction and learn about broader trends and characteristics in IoT. In addition, students will evaluate the security design of IoT-connected products.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Explain how this specific course fits within the context of the institution’s mission.*</td>
<td>This course is a purposeful duplication of an existing course and relies on the established institutional context for that course.</td>
<td></td>
<td></td>
</tr>
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</table>
Explain assessment findings which led to course development.*

A panel of interdisciplinary faculty members selected this course from existing KSU curriculum to include in this proposal so as to leverage the existing course work and faculty capabilities.

Please list all of the faculty-approved degree(s) required to teach this course.*

Sufficient preparation to teach this course will be either a Masters-level or Doctoral-level degree in any security-related or computing-related field OR a minimum of five years practical experience in cybersecurity employment or consulting in the topic being covered by the course. This course is one that would benefit from being taught by a practicing professional in the field of cybersecurity.

What is the substance of content in each prerequisite that commands its inclusion as a prerequisite to the proposed course?*

The courses listed are believed to be a valid indicator of readiness to advance to the level of academic preparation necessary to successfully complete this course.

IT 4823 includes content on data communications and networking essential to successful completion of the degree.

CYBR 3200 includes content on network security essential to successful completion of the degree.

What is the desired sequence of prerequisites?

No preference.

What is the rationale for requiring the above sequence of prerequisites?

Sufficient preparation to teach this course will be either a Masters-level or Doctoral-level degree in any security-related or computing-related field OR a minimum of five years practical experience in cybersecurity employment or consulting in the topic being covered by the course. This course is one that would benefit from being taught by a practicing professional in the field of cybersecurity.
How often are the required prerequisites offered?  
At least every Fall and Spring and Summer term as can be supported by enrollment.

Give any other justification for the course.

<table>
<thead>
<tr>
<th>How often will this course be offered?*</th>
<th>Every semester/term</th>
<th>If other, please state frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type of Delivery*</td>
<td>□ On Kennesaw Campus: Face-to-Face</td>
<td></td>
</tr>
<tr>
<td></td>
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<td></td>
<td>✓ Fully at a distance- online</td>
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</tr>
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<td></td>
<td>□ Hybrid</td>
<td></td>
</tr>
<tr>
<td></td>
<td>□ Off-site location</td>
<td></td>
</tr>
</tbody>
</table>

Name of off-site location (if applicable)

All sections of the course will be taught with the understanding that the following apply:

Learning Outcomes†
See course syllabus.

Course content* See course syllabus.

What instructional methodologies will be incorporated into the course to stimulate group process and educational outcomes?*

This course is a purposeful duplication of an existing course and relies on the established instructional methodologies for that course.

Outline the plan for continuous course assessment.*

This course is a purposeful duplication of an existing course and relies on the established assessment methodologies for that course.

Course Title for Label* IoT: Apps & Security

Grades Allowed* ☑ Regular ☐ S/U

How many times can you re-enroll in this course to improve grade?*

1

Is this course repeatable for credit?* ☑ Yes ☐ No

If yes, how many times may it be taken for credit?

https://kennesaw.curriculog.com/proposal:4961/print
<table>
<thead>
<tr>
<th>Question</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Will this course be included in General Education?</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Will this course be included in Area F?</td>
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<td>No</td>
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If yes, the academic department must submit the Request for New or Change in Course Fee form to the Office of Budget and Planning for approval. Special fees will not be assessed at the section if the request has not been approved. Special course fees are not retroactive. Please follow-up with each special course fee request in a timely manner.

- Check to confirm. I have attached a course syllabus.

The institution has reviewed the University System of Georgia list of common course prefixes, numbers, and descriptions. (USG Academic Affairs Handbook, 2.4.(0))

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<tr>
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<tbody>
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Note: USG Area F guidelines can be reviewed here.

## Resources and Funding

<table>
<thead>
<tr>
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<tbody>
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<td>What resources will be redirected to accommodate this course?</td>
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</tbody>
</table>
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Explain the costs for each of the following items (personnel, computer technology, space, equipment, other).

<table>
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<tr>
<th>Category</th>
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<tbody>
<tr>
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<tr>
<td>Other Necessary Resources</td>
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</tr>
</tbody>
</table>

General Education or Area F ONLY

If this course has been approved as a General Education course requirement, Please attach the USG Core Course Proposal form found at http://curriculum.kennesaw.edu/resources/bor-forms-info.php

I have completed and attached the USG Core Course Proposal form.*

- Yes
- No
- NA

Routing Information

<table>
<thead>
<tr>
<th>Department of Ownership</th>
<th>Institute for Cybersecurity Workforce Development</th>
</tr>
</thead>
</table>

https://kennesaw.curriculog.com/proposal:4961/print
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<th>Herb Mattord</th>
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</table>

<table>
<thead>
<tr>
<th>Is this an education course from outside the Bagwell College of Education?*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
</tr>
<tr>
<td>No</td>
</tr>
</tbody>
</table>