IU Undergraduate Bulletin
College of Arts and Sciences

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CYBERSECURITY AND GLOBAL POLICY PROGRAM

Bachelor of Science in Cybersecurity and Global Policy

Students on Summer 2020, Fall 2020, or Spring 2021 requirements   CYGLPOLBS

The B.S. provides students with both technical and policy expertise in a rapidly expanding field, one in which there is high demand for skilled professionals. Through pursuing this degree, students will gain a sophisticated understanding of programming, data structures, networked systems, and security protocols. They will also learn about the wide range of privacy, cultural, economic, legal, and security issues surrounding the field of cybersecurity. They will learn to assess risk, explore possible responses to cyber attacks, and examine how cybersecurity crosses national boundaries and thereby challenges traditional, state-oriented understandings and responses. Upon graduation, students should be able to work closely and communicate effectively with a wide range of both technical and policy experts in the public, nonprofit, and private realms.

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A semester-by-semester path to completing degree and major requirements

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⌂ / **Majors, Minors + Certificates** / Bachelor of Science in Cybersecurity and Global Policy

Requirements

Major	Degree

The major requires at least 71.5 credit hours (74.5 with the addenda requirement), including the requirements listed below.

1. **Technical, Policy, and Social Foundations.**
   a. **Introduction to Informatics.** One (1) course:
      - INFO-H 101 Introduction to Informatics, Honors ⓘ
      - INFO-I 101 Introduction to Informatics ⓘ
   b. **Mathematical Foundations of Informatics.** One (1) course:
      - CSCI-C 241 Discrete Structures for Computer Science ⓘ
      - INFO-H 201 Mathemetical Foundations of Informatics, Honors ⓘ
      - INFO-I 201 Mathematical Foundations of Informatics ⓘ
   c. **Introduction to International Studies.** One (1) course:
      - INTL-I 100 Introduction to International Studies ⓘ
   d. **Culture in the Digital Age.** One (1) course:
      - INTL-I 305 Advanced Topics in Culture and Politics ⓘ
   e. **Introduction to International Law and Legal Institutions.** One (1) course:
      - INTL-L 250 Introduction to International Law and Legal Institutions ⓘ
   f. **Origin and Evolution of International Law.** One (1) course:
      - INTL-L 350 Origins and Evolution of International Law ⓘ
2. **Cybersecurity Core.**
   a. **Diplomacy, Security, Governance.** One (1) course:
      - INTL-I 210 Diplomacy, Security, Governance ⓘ
   b. **Analytical Foundations of Security.** One (1) course:
      - INFO-I 230 Analytical Foundations of Security ⓘ
   c. **Introduction to the Mathematics of Cybersecurity.** One (1) course:
      - CSCI-C 231 Introduction to the Mathematics of Cybersecurity ⓘ
      - INFO-I 231 Introduction to the Mathematics of Cybersecurity ⓘ
   d. **Introduction to International Relations.** One (1) course:
      - POLS-Y 109 Introduction to International Relations ⓘ

   e. **Informational Infrastructure I.** One (1) course:
- CSCI-C 200 Introduction to Computers and Programming ⓘ
- INFO-I 210 Information Infrastructure I ⓘ

   f. **Informational Infrastructure II.** One (1) course:
- CSCI-C 212 Introduction to Software Systems ⓘ
- INFO-I 211 Information Infrastructure II ⓘ

   g. **Systems Programming with C and Unix.** One (1) course:
- CSCI-C 291 System Programming With C and Unix ⓘ

   h. **Ethics and Decision-Making in International Politics.** One (1) course:
- INTL-I 340 Ethics and Decision-Making in International Politics ⓘ

   i. **Security for Networked Systems.** One (1) course:
- CSCI-B 430 Security for Networked Systems ⓘ
- INFO-I 430 Security for Networked Systems ⓘ

   j. **Systems & Protocol Security & Informational Assurance.** One (1) course:
- CSCI-B 433 Systems & Protocol Security & Information Assurance ⓘ
- INFO-I 433 Systems and Protocol Security and Information Assurance ⓘ

   k. **Cybersecurity, Policy, and Governance.** One (1) course:
- SGIS-S 401 Cybersecurity, Policy, and Governance ⓘ

   l. **Capstone.** At least three (3) credit hours:
- SGIS-X 373 Internship in Global and International Studies ⓘ

3. **Other Requirements.**

   a. **Area Studies.** Two (2) courses:
- EALC-E 110 Popular Culture in East Asia ⓘ
- EALC-E 115 Romancing East Asia: Literatures of Love from Early Times to the Present ⓘ
- FOLK-F 111 World Music and Culture ⓘ
- PHIL-P 201 Ancient Greek Philosophy ⓘ
- SLAV-R 223 Introduction to Russian Culture ⓘ
- Additional courses with program approval

– Fewer course options

  b. **Intelligence.** One (1) course:
- ILS-Z 331 Strategic Intelligence ⓘ
- ILS-Z 351 Moles, Deception, and Counterintelligence ⓘ

  c. **International Diplomacy and Security.** One (1) course:
- INTL-I 310 Advanced Topics in Diplomacy, Security, Governance ⓘ

  d. **Data Visualization.** One (1) course:
- SGIS-S 201 Analysis & Visualization of International Data ⓘ

4. **Addenda Requirement*.**
  a. **Mathematical Modeling.** One (1) of the following:
- Both of the following:
  - MATH-D 116 Introduction to Finite Mathematics I ⓘ
  - MATH-D 117 Introduction to Finite Mathematics II ⓘ
- MATH-M 118 Finite Mathematics ⓘ
- MATH-V 118 Finite Mathematics with Applications ⓘ

5. **Major GPA, Hours, and Minimum Grade Requirements.**
  a. **Major GPA.** A GPA of at least 2.000 for all courses taken in the major—including those where a grade lower than C- is earned—is required.
  b. **Major Minimum Grade.** Except for the GPA requirement, a grade of C- or higher is required for a course to count toward a requirement in the major.
  c. **Major Upper Division Credit Hours.** At least 18 credit hours in the major must be completed at the 300–499 level.
  d. **Major Residency.** At least 18 credit hours in the major must be completed in courses taken through the Indiana University Bloomington campus or an IU-administered or IU co-sponsored Overseas Study program.

Notes

* Courses used to fulfill addenda requirements require a grade of C- or higher and do not count toward the Major GPA or Major Hours.