



**College of Information and Cyberspace
Schedule of Courses
Academic Year 2022-2023
Spring Semester**





CONTACT DIRECTORY

INTERNET HOME PAGE:

<http://cic.ndu.edu/>

TELEPHONE:

202-685-6300

DSN 325-6300

FAX:

202-685-4058

DSN 325-4058

E-MAIL:

CICOSS@ndu.edu

MAILING ADDRESS:

College Of Information and Cyberspace

Office of Student Services

300 5th Avenue, Bldg 62, Rm 145

Ft. Lesley J. McNair, DC 20319-5066

Welcome

Located at Fort Lesley J. McNair on the Washington, DC waterfront, the College of Information and Cyberspace (NDU CIC) is the largest of five graduate-level colleges that comprise the National Defense University. The CIC educates future thought leaders and change agents who will make the difference in government and strives to meet your workforce education needs for information leadership and management.

The CIC Office of Student Services processes admissions and registration, maintains students' academic records, and publishes the CIC ***Schedule of Courses***. The Office of Student Services also manages the admission and enrollment systems used by students, faculty, and advisors.

Information about our programs and courses is available on our website at <https://cic.ndu.edu/>. Please let us know if you need additional information by contacting the Office of Student Services at 202-685-6300 or by email at CICOSS@ndu.edu.

ENROLLMENT PROCEDURES

Course Registration

Students who are admitted to the CIC at NDU will be sent detailed instructions regarding course registration, account information for online systems, and advisor information. In order to be registered for a course, a course request form must be completed for each enrollment requested. The course request form is available on the CIC website at <https://cic.ndu.edu/Current-Students/Student-Registration/>.

Members of special program cohorts will receive registration instructions from the program director.

IA Compliance and Registration

The National Defense University (NDU) provides all of its students with access to the Internet, wireless networks, curricula, and research tools -- all via Department of Defense (DoD) Information Systems. Access to NDU information systems is predicated on user compliance with DoD/NDU cybersecurity regulations. Students will not be enrolled in a course until all IA compliance requirements have been met and confirmed by NDU IT. Non-compliant students will be placed on the course waitlist until compliance is confirmed. Compliance instructions can be found on the CIC website at http://www.ndu.edu/Students/IA_NonJPME/.

Confirmation of Course Registration

Students will receive a course status email (enrolled/waitlisted) within 7 to 10 business days of their course request. The CIC may send additional reminders and attendance confirmation requests prior to the course start date. Students should promptly respond to requests for information.

Multiple Registrations Policy

Students may register for two DL courses concurrently. Students on an academic probation status must seek permission for entry to multiple DL offerings. Requests must be submitted to the CIC Office of Student Services in writing (CICOSS@ndu.edu; Fax: 202-685-4860) no later than 2 weeks prior to the course start date.

REGISTRATION PERIODS

Registration opens on the dates below and will close on the Thursday prior to the Course Start Date (CSD).

Registration Opens

June 15, 2022

October 15, 2022

February 15, 2023

Semester

Fall: September 2022 – December 2022

Spring: January 2023 – April 2023

Summer: April 2023 – June 2023

CONFIRMATION OF ENROLLMENT & CONTACT INFORMATION VALIDATION

Students who successfully register for a course section will receive a class acceptance notice to their preferred email address of record.

Please ensure the following contact information is up-to-date with the Office of Student Services:

- Preferred Email Address
- Preferred Contact Telephone Number
- Current Employer

The CIC will make every effort to reach the student prior to taking a drop action should the course section be cancelled. Students are encouraged to contact the Office of Student Services at any time prior to the Course Start Date to verify enrollment or to update contact information.

NDU CIC Office of Student Services

202-685-6300

CICOSS@ndu.edu

COURSE AVAILABILITY IN BLACKBOARD

Each course section has a site on the CIC's online learning platform, Blackboard. This site will be available to students on the Friday before the Course Start Date. Students must access Blackboard and sign in immediately following the Course Start Date to begin course work. Please note that students will NOT see their course registration in Blackboard until noon on the Friday before the course start date.

DROP POLICY

Students may dis-enroll at any time prior to the Course Start Date (CSD) via email notification to the Office of Student Services. Students who seek to withdraw from a course after the course start date must complete a Course Withdrawal Form. The form is available on the CIC website at <https://cic.ndu.edu/Current-Students/Student-Registration/>.

In accordance with academic policy, any drop on or after the Course Start Date will result in a grade being assigned in the course. See the online CIC Catalog for the complete grading policy.

Course Models

NOTE

Each course section has a site on the CIC's online learning platform, Blackboard. This site will be available to students at **12:00pm (noon) on the Friday before the Course Start Date for Distributed Learning (DL) courses**. Students must access Blackboard and sign in immediately following the Course Start Date.

NDU CIC Spring 2023 *Intensive Courses* will be offered in the following format:
Distributed Learning.

Distributed Learning (DL)

The Distributed Learning (DL) format engages students and faculty virtually over 12 weeks via Blackboard. The first 10 weeks of course, students are engaged in online seminar. The final two weeks is dedicated for assessment completion. The end-of-course assessment is typically a substantive paper or project that allows students to demonstrate their mastery of the intended learning outcomes. To receive credit for a course, students must be actively engaged virtually in every DL lesson as assigned by faculty. Final assessments are due no later than the Monday following the 12th week. Assessments are due no later than the Monday following the 12th week. The last day to withdraw from a DL course is the Monday of the 4th week of class.

DL	Last Day to Withdraw
1/09/2023 – 4/02/2022	1/30/2023

Key Terms

Key terms found in the *Schedule of Courses* or website:

- **Course Number** – Course Number is the four-digit identifier of the class. For example, for the course titled “Continuation of Operations,” the Course Number is 6504. The Course Number can be found in the Class Listing section of the *Schedule of Courses* and in the Course Listing page of the CIC website.
- **Course Start Date** – The Course Start Date of a class is the first day of the active learning period. All courses (e-Resident and DL) will require active engagement with the faculty effective this date. See the **DL Format** definition above.
- **Course End Date** – The Course End Date is the final day of the active learning period. See the **DL Format** definition above.
- **Student Arrival** – The Student Arrival date represents the start date of the face-to-face portion of the class. There is no face-to-face portion for Distributed Learning courses. See the **DL Format** definition above.
- **Student Departure** – The Student Departure date represents the end date of the face-to-face portion of the class. There is no face-to-face portion for Distributed Learning courses. See the **DL Format** definition above.

Class Schedule by Course

Please recall that the last day to withdraw from a course with a grade of 'W' is:

Distributed Learning - The Monday of the 4th week of class:

DL	Last Day to Withdraw
1/09/2023 – 4/02/2023	1/30/2023

CBL (6204) – Cyberlaw

The Cyber Law course presents an overview of the structure of the US domestic and international legal systems. It introduces students to the philosophical foundation of the legal system and the sources of domestic and international law. During the course, students will be taught the process of legal reasoning and how the process is broadly applicable in professional writing and speaking and will be given the opportunity to practice the skills they learn. Among other things, the course will discuss the role of attorneys in national security and international law; how senior leaders interact with attorneys and their advice; and the use of legal reasoning in the development of policy and strategy. Throughout the course, the relevance of all the topics discussed to cyberspace, cyber operations, and information as an instrument of national power is paramount.

Section	Course Start Date	On Campus		Course End Date	Format/Comment
		Student Arrival	Student Departure		
05	1/09/2023	DL	DL	4/02/2023	Distributed Learning
06	1/09/2023	DL	DL	4/02/2023	Distributed Learning

CIO (6303) – CIO 2.0 Roles and Responsibilities

Students examine the essential analytic, relational, technological, and leadership competencies that government CIOs and their staffs need to respond to and shape the 21st Century environment. Students assess the high information and IT demands of customers; examine the potential and perils of ubiquitous technology and information saturation; and weigh the tradeoffs of resource constraints, legal and policy mandates, and security in an open environment. The dynamic and multi-dimensional roles and responsibilities of government CIOs and their staffs are scrutinized to assess opportunities and challenges for improving governance, resource management, and decision making. Students analyze critical internal (CTO, CFO, Commander, Agency Head, Operations Chiefs) and external (other governmental agencies, OMB, Congress, and the private sector) relationships that CIOs and their staffs need to foster in order to satisfy their mission-related, legal, organizational, and political mandates.

Section	Course Start Date	On Campus		Course End Date	Format/Comment
		Student Arrival	Student Departure		
02	1/09/2023	DL	DL	4/02/2023	Distributed Learning

CIP (6230) – Critical Information Infrastructure Protection

This course examines the security of information in computer and communications networks within infrastructure sectors critical to national security. These include banking, securities and commodities markets, industrial supply chain, electrical/smart grid, energy production, transportation systems, communications, water supply, and health. Special attention is paid to the risk management of information in critical infrastructure environments through an analysis and synthesis of assets, threats, vulnerabilities, impacts, and countermeasures. Students learn the importance of

interconnection reliability and methods for observing, measuring, and testing negative impacts. Special consideration is paid to the key role of Supervisory Control and Data Acquisition (SCADA) systems in the flow of resources such as electricity, water, and fuel. Students will learn how to develop an improved security posture for a segment of the nation's critical information infrastructure.

		On Campus			
Section	Course Start Date	Student Arrival	Student Departure	Course End Date	Format/Comment
01	1/09/2023	DL	DL	4/02/2023	Distributed Learning

CSF (6211) – Cyber Security Fundamentals

This course provides an overview of the fundamentals of cybersecurity from the perspective of a DoD or federal agency senior leader. The course provides a foundation for analyzing the cyber and information security of information systems and critical infrastructure. Law, national strategy, public policy, and risk management methodologies are examined for assuring the confidentiality, integrity, and availability information systems and assets.

		On Campus			
Section	Course Start Date	Student Arrival	Student Departure	Course End Date	Format/Comment
03	1/09/2023	DL	DL	4/02/2023	Distributed Learning

DAL (6420)—Data Analytics for Strategic Leaders

This course examines how organizations can improve mission execution by employing data analytics capabilities. Establishing and maturing these capabilities requires leadership as well as an ability to both conduct analytics and interpret analytic results. Students will apply qualitative and quantitative measures on data sets to better enable organizations to meet mission needs and organization priorities. The quality of data and the sources from which data are collected are explored. Compliance, security, and the 'ethical' use of data will also be topics of discussion within the course.

		On Campus			
Section	Course Start Date	Student Arrival	Student Departure	Course End Date	Format/Comment
01	1/09/2023	DL	DL	4/02/2023	Distributed Learning

EDT (6443)—Emerging and Disruptive Technologies

This course examines the core concepts of information technology and its rapidly expanding role in solving problems, influencing decision making and implementing organizational change. Students will be introduced to an array of emerging technologies at various levels of maturity. Students analyze how emerging technologies evolve. They evaluate the international, political, social, economic, and cultural impacts of emerging technologies using qualitative and quantitative evaluation methods. Students assess emerging technologies using forecasting methodologies such as monitoring and expert opinion, examining future trends, and assessing international perspectives.

		On Campus			
Section	Course Start Date	Student Arrival	Student Departure	Course End Date	Format/Comment
03	1/09/2023	DL	DL	4/02/2023	Distributed Learning
04	1/09/2023	DL	DL	4/02/2023	Distributed Learning

FFR (6607)—The Future of Federal Financial Information Sharing

This course focuses on the changing directions of financial and management reporting for Chief Financial Officers in a dynamic environment. In response to evolving citizen and shareholder expectations, financial statement reporting, budgetary reporting, and cash reporting must be accurate, transparent, and accountable, and result in “clean” audit opinions. New reporting expectations and changing accounting standards require new relationships among federal, state, and local governments, and government contractors, as well as enhanced reporting to internal constituents of the CFO, including program managers and the organizational head. Successful reporting can be facilitated by enterprise architecture, financial systems, and data management techniques.

Section	Course Start Date	On Campus		Course End Date	Format/Comment
		Student Arrival	Student Departure		
01	1/09/2023	DL	DL	4/02/2023	Distributed Learning

ICC (6154)—International Challenges in Cyberspace

This course is designed to provide students with an overview of the issues surrounding cyberspace, including global governance and policy frameworks, international investment, and other national policies relevant to cyberspace. Students will be introduced to the goals and perspectives of critical state and non- state actors as well as social, political, economic, and cultural factors that lead to diverse international perspectives to better understand how the US and allied states should formulate strategy and policy for cyberspace.

Section	Course Start Date	On Campus		Course End Date	Format/Comment
		Student Arrival	Student Departure		
05	1/09/2023	DL	DL	4/02/2023	Distributed Learning
06	1/09/2023	DL	DL	4/02/2023	Distributed Learning

ITA (6415)—Strategic Information and Technology Acquisition

This course explores acquisition processes that seek to place information technology systems into the hands of joint warfighters and agency information leaders faster and with more ability to adapt to fluid situations. We examine the role senior military and agency leaders play in the successful acquisition of information technologies and services to achieve strategic organizational goals. Students use the Systems Development Life-cycle (SDLC) as a framework to explore acquisition strategies and charters, requirements management, development, testing, deployment, risk management and sustainment activities, focusing on the acquisition of IT and related services. Acquisition best practices and techniques cited in the US Digital Services Playbook are explored. IT-related risk management, to include avoidance of counterfeit chips and computer malware, risks of transition to cloud computing and advanced analytics are also discussed. Significant emphasis is placed on the contracting processes and outsourcing of IT networks and services. Ethics issues are explored using Department of Defense acquisition case studies.

Section	Course Start Date	On Campus		Course End Date	Format/Comment
		Student Arrival	Student Departure		
02	1/09/2023	DL	DL	4/02/2023	Distributed Learning

IUC (6217)—Illicit Use of Cyber

This course explores illicit uses of cyber (e.g., terrorism, crime, human trafficking, etc.) and the impact of these activities on national and global security. The course explores the identity of actors engaged in these activities, their motivation, techniques, and what countermeasures can be adopted to mitigate their impact. The course provides a risk management framework to help information leaders leverage the benefits of cyber technologies while minimizing risks.

Section	Course Start Date	On Campus		Course End Date	Format/Comment
		Student Arrival	Student Departure		
01	1/09/2023	DL	DL	4/02/2023	Distributed Learning

RMF (6218)—Risk Management Framework for Strategic Leaders

This course prepares future Chief Information Security Officers (CISO), Senior Information Security Officers (SISO) and senior staff involved in the cyberspace component of national military and economic power for their role as an overall cyber risk assessment and acceptance leader. Students explore how cyber security relates to information security, security governance, security program management, system risk assessment and authorization as well as day-to-day cyber security monitoring management. Students will explore enterprise security strategies, policies, standards, controls, programs, cyber operations, security assessment and measures/metrics, incident response, resource allocation, workforce issues, ethics, roles, and organizational structure.

Section	Course Start Date	On Campus		Course End Date	Format/Comment
		Student Arrival	Student Departure		
01	1/09/2023	DL	DL	4/02/2023	Distributed Learning

SLF (6168)—Senior Leader Foundations

This course provides students with a common intellectual foundation essential for success in the College of Information and Cyberspace curriculum and longer-term success as senior leaders. The course will provide a foundation to develop the skills for creative and critical thinking; explore the concepts, principles, and skills to help understand the global security environment and address the challenges of strategic leadership; introduce students to the Joint Force and the strategic aspects of Joint Professional Military Education; and provide a foundation in cyberspace fundamentals and information theory and strategic principles

Section	Course Start Date	On Campus		Course End Date	Format/Comment
		Student Arrival	Student Departure		
02	1/09/2023	DL	DL	4/02/2023	Distributed Learning

Class Schedule by Date

Course Number	Abbreviation	Section	Course Start Date	On-Site Course Start Date	On-Site Course End Date	Course End Date
6204	CBL	05	1/09/2023	DL	DL	4/02/2023
6204	CBL	06	1/09/2023	DL	DL	4/02/2023
6303	CIO	02	1/09/2023	DL	DL	4/02/2023
6230	CIP	01	1/09/2023	DL	DL	4/02/2023
6211	CSF	03	1/09/2023	DL	DL	4/02/2023
6420	DAL	01	1/09/2023	DL	DL	4/02/2023
6443	EDT	03	1/09/2023	DL	DL	4/02/2023
6443	EDT	04	1/09/2023	DL	DL	4/02/2023
6607	FFR	01	1/09/2023	DL	DL	4/02/2023
6154	ICC	05	1/09/2023	DL	DL	4/02/2023
6154	ICC	06	1/09/2023	DL	DL	4/02/2023
6415	ITA	02	1/09/2023	DL	DL	4/02/2023
6217	IUC	01	1/09/2023	DL	DL	4/02/2023
6218	RMF	01	1/09/2023	DL	DL	4/02/2023
6168	SLF	02	1/09/2023	DL	DL	4/02/2023