NAVAL POSTGRADUATE SCHOOL

Call for Applications

Data Analytics for Defense Management Certificate

Distance Learning Program

Commences the week of 30 MAR 2026 with the NPS Department of Defense Management

The Data Analytics for Defense Management Certificate (Curriculum 194) educates students to use data to inform decision making and to manage data-related projects and programs. Students with no prior data or statistics background become data literate with an understanding of how data creates value in defense organizations. This is an excellent opportunity to gain essential skills and knowledge in modern data analytics practices and leveraging data-based decision making. Qualified federal and DoD personnel, international students, and defense contractors are encouraged to apply.

This one-year, graduate-level certificate is a part-time, distance learning program. The online instruction brings the classes to the students, permitting students to continue supporting the mission of their Command/Agency. Students enroll in one online course per academic quarter for four consecutive quarters using Zoom. Class meets on Wednesday 1000-1300 Pacific Time. Students are required to be online during class for synchronous, live interaction between professors and students. A microphone is required for class participation and a web camera is strongly encouraged.

- Tuition is $2,600 per course to be funded by the student's Command/Agency for all students other than active-duty Navy and Marine Corps personnel. Tuition is subject to increase.
- Active-duty Navy and Marine Corps personnel are centrally funded by the DON on a space available basis.
- Contact your Command/Agency/Detailer/Monitor for continued service obligation details.
- Students or their Command/Agency are responsible for textbooks and course materials costs.
- Students are required to use a computer on which statistical software can be downloaded.

Requirements for admission:

- Undergraduate degree from an institutionally accredited four-year university or college.
- A minimum GPA of 2.2 on a four-point scale.
- A minimum of college-level algebra.
- Mathematical literacy is a requirement for entry but students are not required to have any prior knowledge of probability, statistics, statistical software, or computer programming. A self-study mathematics refresher will be provided to all students upon acceptance into the certificate. The purpose of the mathematics refresher is to review fundamental mathematic concepts that are particularly important for student success in MN3911.

NPS online application deadline is 12 JAN 2026: https://nps.edu/web/admissions/apply.
For more information, contact Dr. Christina Hart, Department of Defense Management Distance Learning Program Director, cchart@nps.edu or phone (831) 656-6269 and visit https://online.nps.edu/w/194-data-analytics-for-defense-management?inheritRedirect=true.

HOW TO APPLY

#1. Complete an NPS online application: https://nps.edu/web/admissions/apply.
The NPS online application deadline is 12 JAN 2026. If you are unable to access the NPS online application from your government computer, you will need to apply using a non-government computer. If you experience problems with the online application, contact NPS Admissions (admissions@nps.edu).

The required application information differs depending on whether you are a federal civilian working in the DON FM community, active-duty Navy or Marine Corps personnel, federal agency/DoD civilian personnel not working in the DON FM community, an international applicant, or a defense contractor. If you are an international applicant, review the admission procedures outlined at https://nps.edu/web/igpo/admissions and contact IGPOIMSO@nps.edu.

DON FM civilian personnel:

If you are a DON FM workforce applicant, your tuition is centrally funded by the ASN (FM&C) FM Human Capital Office. Contact Dr. Christina Hart (cchart@nps.edu) for the DON FM&C- sponsored Call for Applications for this program.

Non-Naval military personnel:

Complete all steps of the online application and use this information for completing **Steps 1 and 5**.

- **Step 1** of NPS online application: Selected Program
  Program Delivery: via Distance Learning (DL)
  Program Type: Certificate
  Program: Data Analytics for Defense Management (DL); Curric 194 (SPRING)
  Starting Quarter: 2026/3: (Spring, 3/30/2026 to 6/18/2026)

- **Step 5** of NPS online application: Additional Requirements
  Input information for the Funding POC at your Command/Agency who will receive the NPS tuition invoice. Do not input yourself as the Funding POC as students are not permitted to fund their own tuition. Your application cannot be considered without a Funding POC.

Defense contractors:

Contact NPS Admissions (admissions@nps.edu) to confirm your eligibility to apply to NPS before completing the online application. If you are eligible, complete all steps of the online application and use this information for completing **Steps 1 and 5**.

- **Step 1** of NPS online application: Selected Programs
  Program Delivery: via Distance Learning (DL)
  Program Type: Certificate
  Program: Data Analytics for Defense Management (DL); Curric 194 (SPRING)
  Starting Quarter: 2026/3: (Spring, 3/30/2026 to 6/18/2026)

- **Step 5** of NPS online application: Additional Requirements
  Input information for the Funding POC at your command/agency who will receive the NPS tuition invoice. Do not input yourself as the Funding POC as students are not permitted to fund their own tuition. Your application cannot be considered without a Funding POC.

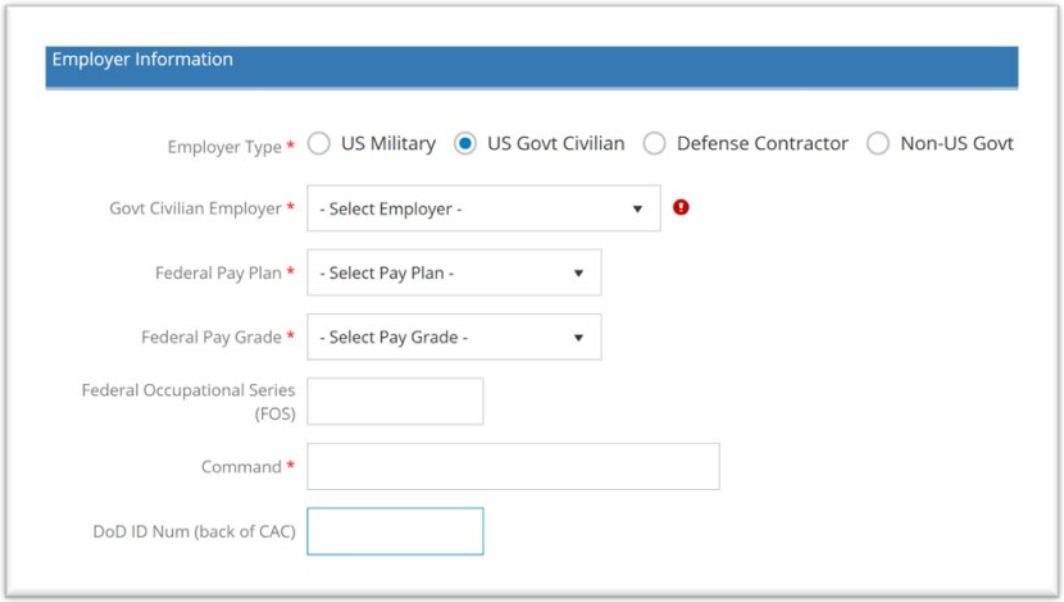
Federal agency/DoD civilian personnel not working in the DON FM community:

Complete all steps of the online application and use this information for completing **Steps 1, 2 and 5**.

- **Step 1** of NPS online application: Selected Program
  Program Delivery: via Distance Learning (DL)

Program Type: Certificate
Program: Data Analytics for Defense Management (DL); Curric 194 (SPRING)
Starting Quarter: 2026/3: (Spring, 3/30/2026 to 6/18/2026)

- **Step 2** of NPS online application: Employer Information
  Be sure to input your Federal Occupational Series (FOS) (example: 0501). Although the online application does not have an asterisk next to this information to indicate it is required, the NPS Department of Defense Management requires this information. Your application cannot be considered without your Federal Occupational Series (job series number).



- **Step 5** of NPS online application: Additional Requirements
  Input information for the Funding POC at your command/agency who will receive the NPS tuition invoice. Do not input yourself as the Funding POC as students are not permitted to fund their own tuition. Your application cannot be considered without a Funding POC.

Active-duty Navy and Marine Corps personnel:

Complete all steps of the online application and use this information for completing **Step 1**.

- **Step 1** of NPS online application: Selected Program
  Program Delivery: via Distance Learning (DL)
  Program Type: Certificate
  Program: Data Analytics for Defense Management (DL); Curric 194 (SPRING)
  Starting Quarter: 2026/3: (Spring, 3/30/2026 to 6/18/2026)

#2. Submit official transcripts to NPS Admissions.

- After submitting your online application, official transcripts must be ordered from all undergraduate and graduate institutions attended and be delivered from the institutions directly to NPS Admissions or via the institutions' designated transcript exchange service.
- NPS does not accept transcripts submitted by the applicant.
- Transcripts must be electronically delivered to admissions@nps.edu or mailed to:
  Admissions Office (Official Transcripts)
  Naval Postgraduate School
  1 University Circle, Herrmann Hall 061A
  Monterey, CA 93943

PROGRAM OVERVIEW

STUDENTS WILL LEARN:

- Foundational concepts in statistics, probability, programming logic, and database management.
- To conduct descriptive and predictive data analyses, and to design analyses to support managerial decision making.
- Terminology and basic methods of machine learning and AI.
- To produce decision-relevant, data-driven analyses as well as to understand and manage data projects and data produced by others.
- How to apply analytics tools across areas of defense management such as financial management, manpower, budgeting, logistics, and acquisitions.
- To visualize and effectively communicate data-derived insights.

COURSE DESCRIPTIONS:

- MN3911 - *Introduction to Data Analytics for Defense Management*
  This course introduces students to foundational techniques for preparing and analyzing data. Each week, students will learn one or more concepts, and then apply acquired skills in a structured learning exercise. Topics include pivot tables, visualization, data storage and retrieval, summary statistics, and an introduction to probability and probability distributions. 3-0 credit hours. Prerequisites: None.
- MN4912 - *Multivariate Data Analysis*
  This course introduces concepts and skills that are necessary to use data for inference, prediction, and to identify causal relationships. Students will build on skills and analytic techniques which were introduced in MN3911, and they will use real-world DoD data and managerially relevant examples. Topics include linear and logistic regression, sampling distributions, estimation, prediction and hypothesis testing, and study design. 3-0 credit hours. Prerequisites: MN3911 or consent of course coordinator (MN3041 or college-level statistics would be acceptable).
- MN4913 - *Advanced Model Building for Causal Inference and Prediction*
  This course introduces students to a range of advanced techniques for prediction and inference that can be used to solve real-world defense problems and inform policy. The first half of the course will be dedicated to developing predictive methods that can be applied in many real-world scenarios. In the second half of the course, students will be introduced to program evaluation methods. 3-0 credit hours. Prerequisites: MN4912 or consent of course coordinator.
- MN4914 - *Applications of Data Analytics in Defense Management*
  This course introduces students to a wide range of defense management applications which use data and analysis to help solve problems and inform policy. Each week, students will learn about an application from a different DDM faculty member who specializes in the given area, and then apply their data analysis skills in a structured learning exercise. Topics include finance, personnel,

manpower, cost-benefit analysis, acquisitions, budgeting, operations, logistics, and content analysis. 3-0 credit hours. Prerequisites: MN4913 or consent of course coordinator.

Additional topics include: Enterprise data management using Jupiter/Advana and DataBricks, advanced topics in Predictive Analytics, and Data Visualization in the enterprise data environment.

Data Analytics for Defense Management Certificate
Curriculum 194 Matrix
Cohort 194-263
Commencing MAR 2026

COURSE #	CREDIT #	COURSE TITLE	SCHEDULE
MN3911	**(3-0)**	**Introduction to Data Analytics for Defense Management**	**Quarter 1**
			Spring AY26 MAR - JUN 2026
MN4912	**(3-0)**	**Multivariate Data Analysis**	**Quarter 2**
			Summer AY26 JUL - SEP 2026
MN4913	**(3-0)**	**Advanced Model Building for Causal Inference and Prediction**	**Quarter 3**
			Fall AY27 SEP - DEC 2026
MN4914	**(3-0)**	**Applications of Data Analytics in Defense Management**	**Quarter 4**
			Winter AY27 JAN - MAR 2027

Curriculum matrix is subject to change due to NPS scheduling and staffing conflicts.
Class day and time = Wednesday 1000-1300 Pacific Time
Graduation: MAR 2027

How to interpret credit #: Following the course number are two numbers in parentheses separated by a hyphen, which indicate the hours of instruction per week in the classroom and in the laboratory, respectively. When calculating quarter-hours for the credit value of the course, laboratory hours are assigned half the value shown. Thus a (3-2) course, having three hours lecture and two hours of laboratory, will be assigned a credit value of four-quarter- hours.