RowanUniversity | Division of Global Learning & Partnerships

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PROGRAM OVERVIEW
FOR ACADEMIC YEAR 2023-2024

**Certificate of Graduate Study (COGS) in Computational Data Science
face-to-face format**

Updated 5/18/23

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Program at a Glance

- **Program Code: COG- CODATASC Major Code: G152**
- This program consists of **4 courses** and **12 graduate semester hours (SH).**
- The program is available **part-time.**
- Depending upon module of entry, it is possible to complete the program in **2 consecutive semesters**.
- The program is offered in a **face-to-face** format at Rowan's Glassboro campus.
- **Courses are offered during traditional 15 week semesters**.
- **Graduation/Exit/Thesis Requirements:** None
- **Course descriptions** are available at http://www.rowan.edu/catalogs/.
- **Costs** are detailed at www.global.rowan.edu.

Program Features

- The Certificate of Graduate Study (COGS) in Computational Data Science is intended for tech savvy industry managers who need to take advantage of big data opportunities.
- As a result of this program, students will be able to use algorithms, statistics, and technology to extract business intelligence from massive amounts of data, to manage streamed data or data stored in massive data warehouses and to visually analyze and present information.
- Students seeking this COGs will be required to take 2 required courses and 2 restricted electives. This COGs is "stackable." That is, all of the courses count for the MS in Data Science and many count for the MS in Computer Science.

Minimum Required Grades and Cumulative GPA

All matriculated post-baccalaureate and graduate students are expected to maintain satisfactory academic progress each term of enrollment. The **COGS in Computational Data Science** is a category 3 program which means in order to maintain satisfactory academic progress and to successfully complete the program students must:

- Earn no more than two total C grades of any combination of "C+" or "C." (grades of C- are not acceptable.)
- Earn no grades lower than a "C"
- Earn an official cumulative GPA (according to matriculation level) of at least 2.500 on Rowan's 4.000 scale

For full details regarding satisfactory academic progress and graduation requirements, please visit www.global.rowan.edu.

Program Entry Points & Application Deadlines

Applications must be <u>complete</u> by the application deadline in order to be considered for admission that term.

Entry Points	Deadlines
Fall	07/01
Spring	11/01
Summer	04/01

This program offers rolling admissions. Visit www.global.rowan.edu for the corresponding start dates for each entry point listed above.

Admission Requirements

- ❑ Completed Post-baccalaureate/Graduate/Doctoral Application Form (www.global.rowan.edu)
- ❑ $65 (U.S.) non-refundable application fee
- ❑ Bachelor's degree (or its equivalent) from an accredited institution of higher learning
- ❑ Official transcripts from *all* colleges attended (regardless of number of credits earned)
- ❑ Current professional resume

PLUS

- ❑ Typewritten statement of professional objectives (including motivation for applying to program)
- ❑ Two letters of recommendation from professional sources
- ❑ Minimum undergraduate cumulative GPA of 2.5 (on a 4.0 scale)
- ❑ Submission of official GRE scores highly recommended

COGS in Computational Data Science

Summary of the Application Process

1. Review the admission policies and procedures in the application instructions and complete the appropriate application form (available to download at www.global.rowan.edu). Include the proper program code, major code, and entry term on all application materials submitted.
2. Submit the completed application form and all other required application materials as soon as possible—but no later than the application deadline—to:

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**Rowan University
Global Learning &
Partnerships
Enterprise Center
225 Rowan Boulevard
Glassboro, NJ 08028**

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Faxed items (856-256-5637) are acceptable for everything *other than* official test scores, official transcripts, and letters of recommendation. Do not send materials to any address or office other than the one listed in this document as this will delay processing.

Admission policy for prospective students is listed in the application instructions available to download from www.global.rowan.edu.

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Transfer Credit Evaluation Process and Policy

1. The **COGS in Computational Data Science** program allows incoming students to transfer up to 3 credits into the program providing a grade of B or better was earned, the course and credits are deemed equivalent to required course and credits in the sequence, and the course was taken within the past 10 years.
2. Transfer credit at the graduate or post-bac level is only evaluated upon request. Instructions and forms for requesting transfer credit are available from the website at www.global.rowan.edu.
   a. Transfer Credit Evaluation Forms must be submitted to Global Admissions by the same application deadline for your program of interest.
   b. Evidence supporting the request (official transcripts, syllabi, and course descriptions) must be included with the request form.
   c. Transfer credit is not fully evaluated or posted until a student is admitted and matriculated.
3. Transfer credit is evaluated by the academic department. Once the transfer credit evaluation process is complete, you will be notified by Global Admissions and any awarded credit will be posted by the Registrar to your account. Students can review awarded transfer credit via Rowan Self Service (www.global.rowan.edu).
4. Any questions about awarded transfer credit should be directed to your Academic Advisor, whose name and contact information is included in this document.

Program Requirements

Foundation Courses: None
Graduation/Exit/Thesis Requirements: None
While the official curricular requirements for this program are located in the Catalog (www.global.rowan.edu), this Program Overview is considered the most up-to-date source for all program requirements.

Required Courses *All courses require permission of instructor to register*

Required Courses	Course Title	Semester Hours
CS 02505	Data Mining I	3
DS 02510	Visual Analytics	3
Restricted Electives:		
CS 02530	Advanced Database Systems: Theory and Programming	3
CS 02570	Information Visualization	3
CS 02605	Data Mining II	3
CS 02620	Data Warehousing	3
CS 02625	Data Quality and Web/Text Mining	3
CS 02630	Advanced Topics in Database Systems	3
CS 07556	Machine Learning I	3
STAT 02514	Decision Analysis	3
STAT 02515	Applied Multivariate Data Analysis	3
ECE 09555	Advanced Topics in Pattern Recognition	3
		Total Credits: 12