



Data Analytics and Applications, BSIS

Contact: CAPS
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Degree Requirements

All WashU Continuing & Professional Studies (CAPS) BSIS students must satisfy the same general-education requirements.

Learners in BSIS programs must complete a certificate, tailoring their degree to their educational and professional goals. In some cases, those with extensive work experience and/or a significant number of transfer credits may have the certificate requirement waived. Requests for waiving the certificate requirement are reviewed and approved by CAPS on a case-by-case basis.

Learners in BSIS programs must also complete a Community Engagement course. A designated CAPS course will fulfill this requirement.

Required Courses: 24 units

Code	Title	Units
CAPS - DATASTUDIES 1240	Introduction to (Statistical) Programming with R	3
CAPS - DATASTUDIES 1400	Programming With Python	3
CAPS - DATASTUDIES 1400	Fundamentals I	1.5
CAPS - DATASTUDIES 1400	Data Fundamentals II	1.5
CAPS - DATASTUDIES 2030	Introduction to Data Science With Python	3
CAPS - DATASTUDIES 2030	SQL and Data: Exploration and Analysis	3
CAPS-GIS 2000	Introduction to GIS	3
CAPS-MATH 1100	Calculus I	3
CAPS-MATH 2000	Applied Statistics (or CAPS-BIO XXXX Biostatistics [new course coming soon!])	3
Total Units		24

Electives: 9 units

Selections include the following:

Code	Title	Units
CAPS - DATASTUDIES 2006	Analysis and Visualization in Tableau	3
CAPS - DATASTUDIES 2006	Advanced Data Visualization (with R)	3
CAPS - DATASTUDIES 2250	Communicating, Leading, and Problem Solving With Data	3
CAPS-GIS 3000	Advanced GIS	3

CAPS-GIS 3005	Digital Cartography	3
CAPS-GIS 3010	GIS Programming	3
CAPS-GIS 4010	Spatial Data Modeling and Design	3
Other courses approved by CAPS		

Required Capstone: 3 units

Students must also complete a 3-unit capstone course.

This program is offered either mostly or fully online. Students entering the U.S. on an F-1 or J-1 Visa must enroll in a program full time. F-1 students are only permitted to enroll in one online course per semester and J-1 students may only enroll in non-credit online courses that do not count toward their degree program. The CAPS cannot guarantee face-to-face enrollment options each semester of full time enrollment, therefore cannot issue an I-20 or DS 2019 to F-1 and J-1 students for this program. If you are an F-1 or J-1 student and wish to enroll in a CAPS program while here on a Visa, please contact our recruitment team to discuss your options for face-to-face program enrollment. F-1 and J-1 students should not enroll in online courses or programs without first consulting the university's Office for International Students and Scholars (OISS).