BACHELOR OF SCIENCE IN URBAN PLANNING AND SPATIAL ANALYTICS

The Bachelor of Science in Urban Planning and Spatial Analytics prepares students to address some of the world's most challenging urban problems in the context of core social values such as sustainability and resilience. The curriculum gives students both a broad understanding of the urban and regional environment and a firm grounding in the practical skills needed for effective analysis and planning.

All students take 10 core courses to

- Establish a foundational understanding of how cities and regions work through the complex interactions between the natural environment, built environment, and socioeconomic context; and
- Build an array of practical urban planning and analytical skills, including urban data analytics, geographic information systems, data visualization, community engagement, and planning methods, among others.

Students are encouraged to self-design a specialized focus area in one of the many subfields of the degree: environment, climate, land use, transportation, economic development, community development, housing, urban design, urban analytics, and geographic information systems.

The curriculum features a capstone senior studio that engages students directly in hands-on experiential learning and emphasizes soft skills such as teamwork, leadership, communication, and critical thinking.

Graduates of the program will find jobs in occupations related to the well-established profession of city and regional planning, the high-technology field of geographic information systems, and the newly emerging field of urban data analytics. Student skills will also be directly transferable to an even larger number of jobs in areas such as government and business consulting, data science, and sustainability.

Code	Title	Credit Hours
Wellness Requirement		
APPH 1040	Scientific Foundations of Health	2
or APPH 10	The Science of Physical Activity and Health	
or APPH 10	Flourishing: Strategies for Well-being and Resilience	
Core IMPACTS		
Institutional Priority		
CS 1301	Introduction to Computing	3
or CS 1315	Introduction to Media Computation	
Mathematics and Quantitative Skills		
MATH 1712	Survey of Calculus	4
or MATH 1552	Integral Calculus	
Political Science and U.S. History		
HIST 2111	The United States to 1877	3
or HIST 2112	The United States since 1877	
or INTA 1200	American Government in Comparative Perspective	
or POL 1101	Government of the United States	
or PUBP 3000	American Constitutional Issues	
Arts, Humanities, and Ethics		
Any HUM		6
Communicating in Writing		
ENGL 1101	English Composition I	3
ENGL 1102	English Composition II	3
Technology, Mathematics, and Sciences		
MATH 1711	Finite Mathematics	4
or MATH 15 & MATH 15	Differential Calculus and Introduction to Linear Algebra	
Lab Science Elective		8
Social Sciences		
Any SS		9
Field of Study [2]		
CP 2020	Introduction to Urban and Regional Planning	3
CP 2233	Sustainable Urban Development	3
CP 2030	Atlanta Past, Present, and Future	3
CP 2040	Cities of Tomorrow	3
Any 1000-,2000-level course from Colleges of Sciences, Computing, or Engineering		3
Any 1000-,2000-level course from ARCH, BC, ID, PUBP, ECON, INTA, or HTS		3
Major Requirements		
CP 3024	Qualitative Analysis and Research Design	3
CP 3025	Quantitative Analysis in Planning	3
CP 4190	Introduction to Climate Change Planning	3
CP 4510	Fundamentals of Geographic Information Systems	3
CP 4060	Urban Data Science	3
CP 4052	Sustainable Cities Studio	3
City and Regional Planning Electives [1]		
4000-level or higher CP courses		12
4000-level or higher CP courses or other electives [2]		9
Free Electives		
Free Electives		20
Total Credit Hours		**122**

1. Students must complete 12 credits of CP-prefix courses at the 4000-level or higher. Students must also complete 9 credits of CP-prefix courses or select courses from an approved list.
2. Students must complete 9 credit hours of 4000-level or higher CP-prefix courses or select from the following: ARCH 4107, ARCH 4151, ARCH 4320, BC 4120, BC 4270, CEE 4160, CEE 4600, CEE 4610, CEE 4620, EAS 3110, EAS 4410, EAS 4480, ECON 4421, ECON 4440, HTS 3012, HTS 3011, HTS 3081, PUBP 4803 (Public Finance & Policy), PUBP 3315, PUBP 3320, PUBP 3350, PUBP 3600, PUBP 4211