

Spelman College Capability Statement

Institution: **Spelman College**

DUNS No: **069174407**

Cage Code:

NACIS ID(s):

SIC:

Federal EIN No: **58-0566243**

Certificates, Registrations, Accreditations:

POC Information:

Dr. Claudia Scholz, Associate Provost for Research

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OVERVIEW

Spelman College is a historically Black college (HBCU) for women located in Atlanta, GA. The college offers B.S and BA degrees in Art, Biochemistry, Biology, Chemistry, Comparative Women's Studies, Computer and Information Sciences, Dance, Drama, Documentary Filmmaking, Early Childhood Education, Economics, Education Studies, English, Environmental Science, Environmental Studies, French, Dual Degree Engineering, Health Sciences, History, International Studies, Mathematics, Music, Philosophy, Photography, Physics, Political Science, Psychology, Religious Studies, Spanish, Sociology and Anthropology.

RESEARCH CAPABILITIES

Data Science: data visualization; pedagogy of data science instruction;

Chemistry: Computational modeling, insulin-degradaton, green organic synthesis; pharmaceutical and food chemistry

Materials Science: microgels; graphene

Quantitative Biology: geonomics & proteomics; genetic epidemiology; mathematical modeling

Environmental & Climate Science: geographic information systems, multi-scale atmospheric modeling, hydroinformatics, hydroclimatology,

Social & Behavioral Science: scholarship of teaching & learning; economic decision-making; experimental economics and social psychology, eye-tracking methodology

FACILITIES

Biological Core Laboratory- Confocal Microscope, Real-time PCR, High speed and ultracentrifuges, Gel Imaging System, Spectrophotometer, 2 Flow Cytometers, Nano Drop Spectrophotometer, 2 Autoclaves, 4 BioSafety Cabinets for Cell Culturing, 6 Direct Heat Cell Culture Incubators

Chemistry Department-400 MHz NMR Spectrometer, FTIR Spectrometer, Microwave Plasma Atomic Emissions Spectrometer, gas chromatograph, gas chromatograph-mass spectrometer, liquid chromatograph, UV-visible spectrophotometer, atomic absorption spectrophotometer with graphite furnace, spectrofluorometer, mass spectrometer

Environment Science Lab- inductively coupled plasma (ICP), microwave digest, western blot, multiparameter water quality probe, GC-MS/MS, software – ArcGIS 10.5, Hazus, SolidWorks Solutions

Physics Department- Mössbauer Spectrometer, EPR spectrometer, AC magnetic susceptibility, X-ray diffractometer, high speed video cameras, liquid HE cryostat, multichannel analyzer, oscilloscopes, proportional detectors, analytical balances, diode pumped solid state laser, laser printers, high power pulse generator, polarized HeNe lasers, vacuum pumps, optical vibration isolated table, optical benches, quarter wave plates, electro-mechanical testing machine, UV-visible spectrometer, optical microscope with camera