



## University of the District of Columbia Capability Statement

Institution: University of the District of Columbia

DUNS No: Grants.gov - **137460275**; NSF - **038994133**

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NAICS Code: **611310** SIC Code: 8221 Federal EIN No. 53-6001131

Certificates, Registrations, Accreditations: **SAM, MSCHE, NCATE, ABET, ACEN, NAAB, ACEND, CSWE, AACSB**

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### OVERVIEW

Founded in 1851, the University was originally established as a Normal School for “Colored Girls”. In 1976, the District of Columbia Teachers College, Federal City College and Washington Technical Institute combined to form the University of the District of Columbia. In 1999, the U.S. Department of Education formally designated UDC among the nation’s Historically Black Colleges and Universities and the school is recognized as a congressionally mandated urban land-grant institution. Now celebrating its 40<sup>th</sup> year, the University has emerged as an advanced public system of higher learning that includes the Community College and offers 68 undergraduate and graduate academic degree programs through the College of Agriculture, Urban Sustainability and Environmental Sciences (CAUSES), College of Arts and Sciences (CAS), the School of Business and Public Administration (SBPA), the School of Engineering and Applied Sciences (SEAS), the) and the University of the District of Columbia David A. Clarke School of Law – one of the 6 accredited HBCU law schools in the nation and that is regarded as one of the finest public interest law schools in the country. The University’s enrollment is 5,100. Accredited by the Middle States Commission on Higher Education and under the Leadership of President Ronald Mason, Jr., the University has launched a new chapter of quality, affordability and diversity. Guided by the core values of excellence, innovation, integrity, collaboration and sustainability,

### RESEARCH CAPABILITIES

**CAUSES** - soil biochemistry, nutrition, biodiversity and ecology, architectural design, urban farming, sustainable business development, public health nutrition, community nutrition, water quality assessment and management, GIS based modeling of green infrastructure, minority health issues, senior wellness, urban sustainability, childhood obesity, community-based approaches to economic development, ecology and agricultural economics, restoration of urban systems, and environmental policy



**CAS** - health disparities; health behaviors; language and learning; multicultural communication; special education; teaching and learning at all educational levels; teacher professional development; literature; recruitment, retention and graduation, technology in the classroom; social work; cyber and homeland security STEM

**SBPA** - cybercrime, economic resilience, cross-border business transactions, global marketing urban entrepreneurship, globalization of entrepreneurship, transitional management, management, equal rights in higher education and providing services for special populations

**SEAS** - nanotechnology; renewable energy; heat transfer; biomedical engineering; computational fluid dynamics; computational structure dynamics; urban storm water; water resources engineering, erosion and sediment control; environmental systems; wireless mobile communications; system design; visualization; cloud computing; physical computing; software and hardware transactional memory cross layer Optimization; developing and applying algorithms in the biomedical field; network security; mechatronics design; production engineering and design; industrial engineering and design; design and synthesis of derivatives of biologically potential organic and organometallic molecules; posture control; balance rehabilitation; prostheses implants; rehabilitation robotics; molecular spintronics; solar cells; robotics; autonomous systems; numerical methods in structural analysis; finite element analysis in engineering problems; public transportation problems and neural networks

**UDC-CC** - college readiness; business marketing; business education; effective practices related to on-line education; financial management; interpreting, documenting and chronicling the history of the African American deaf; the use of electronic portfolios in teacher education programs and elementary and secondary professional development.

## **FACILITIES**

**CAUSES** - teaching and research farm, community and neighborhood farms, on campus, food producing green rooftop garden, aquaponics facility, teaching commercial kitchen, Water Resources Research Institute

**CAS** - STEM Center for Research and Development

**SBPA** - Center for Urban Entrepreneurship

**SEAS** - Fluids and Thermodynamics Laboratory; Welding and Machine Shop; Metal Testing and Controls & Dynamics; Aeronautics Laboratory; Thermodynamics Research Laboratory; Graduate Students Research Hub; Electronics and Electronics Shop; Circuits, Electronics & Digital Systems Laboratories; Biomedical Engineering Laboratory; Advanced Communications Laboratory; Laboratory/Laboratory Instruction; Senior Project Laboratory; Networks; Power Systems Laboratory; Sun Stations, Networks and Network Training; Computer Laboratories and Experimental Networks Laboratory.

**UDC-CC** - In order to be accessible, UDC-CC operates out of several sites. The main site is located in Central Washington, DC with easy access by public transportation, train or automobile. The other five sites are located in sections of the city in which the target populations reside.



## **PAST PERFORMANCE**

The University of the District of Columbia has received funding from the Corporation for National and Community Services; Homeland Security; National Institutes of Health; National Science Foundation; U.S. Department of Agriculture; U.S. Department of Defense; U.S. Department of Education; U.S. Department of Energy; U.S. Department of Health and Human Services and the U.S. Department of Labor. This Federal funding has been in the support of STEM programs; enrollment, retention and graduation; suicide prevention; gerontology, agriculture, sustainable development, nutrition programs; nursing programs; student internships; service to special populations; 4-H programs; cancer and solar research; nanotechnology; cyber security; laboratory/research equipment; Upward Bound; Title III and Talent Search. The University serves as a sub-awardee to the University of Maryland, Howard University, University of Vermont, and the Henry M. Jackson Foundation. Other funding includes projects in partnership with District of Columbia agencies (i.e. Department of Housing, Office of the State Superintendent for Education, Department of Energy, Office on Aging, etc.) Private grants awarded to UDC include the Live to Give Foundation in support of the Initiative in Civic Engagement and Equity (ICE-E) Program; Guardian; Thurgood Marshall College Fund and Oak Ridge Associated Universities.