

DAVIS CAMPUS (page 27)

2019-20 and 2020-21 Project Summaries

Capital Need with Funding

Project	Sources	Current Term Budget	Project Summary
EDUCATION AND GENERAL PROJECTS			
Chemistry Addition and 1 st Floor Renovation	EF	46,921	<ul style="list-style-type: none"> • Completes seismic improvements, renovates a portion, and constructs an addition to the Chemistry building. <ul style="list-style-type: none"> ◦ Chemistry Renovation: approximately 7,300 square feet new research labs. ◦ Chemistry Addition: approximately 23,700 square feet new research, office, and meeting space. • Project includes updates that increase the functionality of the space for current laboratory configuration and the modern research environment. <ul style="list-style-type: none"> ◦ Delivers phased series of improvements that allows for continued operation of Chemistry functions and provides swing space to accommodate ongoing research, instruction, and other operations as necessary. ◦ Includes electrical and mechanical modernization; corrects building code compliance deficiencies; improves energy efficiency, and upgrades finishes. ◦ Renovates selected laboratories, and replaces primary air handling equipment and controls. ◦ Completes seismic improvements in Chemistry Building. ◦ Structured to minimize the impact of construction activity on operations and research programs within the building.
Computational and Data Sciences	GF	50,000	<ul style="list-style-type: none"> • 30,500 ASF / 46,950 GSF • Constructs new facility to be located in the Engineering Sciences District. • Serves College of Engineering and consolidates the Department of Computer Sciences, which is currently located in Kemper Hall and the Academic Surge Building. • Includes research and administrative office space. • High priority development initiative for the College of Engineering to: address space constraints that have forced the unconnected location of related programs; and support growth in the College.
Cruess Hall North Renovation	EF	2,700	<ul style="list-style-type: none"> • 15,715 ASF / 32,000 GSF • Demolishes and replaces inadequate instructional space to support the expanding needs of the Humanities, Arts, and Cultural Studies Department. • Renovation of a currently underutilized portion of Cruess Hall to provide academic spaces in support of the Cinema and Digital Media (CaDM) program, the Industrial Design program, and for instructional benefit of the general campus. • Creates new maker spaces, faculty labs, collaboration spaces, new lecture halls, and associated support spaces including new entries, lobbies, and restrooms.
Engineering Student Design Center	GF	21,000	<ul style="list-style-type: none"> • Renovates approximately 10,000 GSF/ Builds new construction (addition) approximately 11,000 GSF • Renovates and expands Bainer Hall to provide instructional and fabrication lab and support space for the College of Engineering. • The Engineering Fabrication Lab in Bainer Hall, which supports a number of required and elective courses, is currently undersized and oversubscribed. This space also supports nationally recognized competition teams, senior capstone projects, and other student learning enhancement. • A new Engineering Student Startup Center will engage engineering and business students in an integrated and collaborative product design and business development process. • Specialized classroom space will accommodate Computer-aided Design (CAD) and Computer-aided Manufacturing (CAM). • Anticipated to be a gift funded project, however, other interim funding options may be used while gift funds are pledged and realized.
Hot Water Conversion	EF	55,200	<ul style="list-style-type: none"> • NA ASF/ NA GSF • Replaces the old and inefficient campus steam distribution system with a new energy-efficient hot water system. • Addresses the critical campus need to replace aging steam infrastructure and provides the best option based on life cycle cost for providing campus heating needs. • Converts the existing steam system to a hot water system for the portion of the central campus that is served by the oldest steam lines and serves buildings around the Quad as well as along Hutchison Drive. • Reduces the operational cost for campus heating, including energy consumption and maintenance costs and will reduce greenhouse gas emissions, helping the campus take steps toward aligning with UC 2025 carbon neutrality goals. • Includes new underground piping from the campus central plant to the Quad area. • Converts approximately 1.8 million square feet of space within 20 core campus buildings from steam to hot water. • Delivers additional capacity to serve future capital projects.
Laboratory for Energy-related Health Research (LEHR) Remediation	EF	15,000	<ul style="list-style-type: none"> • NA ASF/NA GSF • Component of ongoing efforts to mitigate environmental impacts from the Old Campus landfills and associated waste units on the south campus • In 1994, the United State Environmental Protection Agency (EPA) placed 25 acres on the south campus on the National Priorities List as a Superfund Site. The University is bound under Federal Administrative Order on Consent to clean-up the Site in accordance with the requirements of state and federal laws and regulations.

Project	Sources	Current Term Budget	Project Summary
			<ul style="list-style-type: none"> • Completes EPA-selected "Alternative #6" for addressing solid waste and groundwater remediation. Project timeline aligns with anticipated EPA report.
Library Renovations	GF	50,000	<ul style="list-style-type: none"> • 46,500 ASF/66,500 GSF • Renovates outdated University Library Space to meet modern student and faculty needs. • Planning underway to determine scope of improvements. • Integrates information resources and services to serve the library of the 21st Century. Increases collaboration and meeting space. • Renovation projects may be phased to provide incremental improvement based on availability of funding. Phased projects may address all needs in a portion of the facility or most critical needs throughout the building. This budget may not achieve all necessary improvements. • Anticipated to be a development effort; however, campus may deploy resources to develop momentum.
Multi-Disciplinary Research	EF	100,000	<ul style="list-style-type: none"> • TBD ASF / TBD GSF • Supports UC Davis' commitment to STEM; includes support for research activities. • Supports programs that involve multiple departments. • Located proximate to other research and student programs and services. • Includes technical core (imaging and characterization suites) and collaboration core (Lecture, seminar, and conference space), laboratories, office space for interdisciplinary projects, and administrative and other support space.
Wildlife Teaching Center	GF	50,000	<ul style="list-style-type: none"> • 22,100 ASF / 34,000 GSF • Supports the outreach, research, and teaching goals of the UC Davis Museum of Wildlife and Fish Biology. • Funding to be obtained via gift campaign. • Project may be implemented in phases as funds are raised. Project will not advance if gifts are not available to cover project costs.
Winery Expansion	GF	25,000	<ul style="list-style-type: none"> • 11,000 ASF/17,000 GSF • Gift-funded expansion of the existing campus winery facilities. • Supports innovative research and sustainable practices.
Capital Projects \$5 - \$10M	CF, EF	65,000	<ul style="list-style-type: none"> • NA ASF / NA GSF—Various Projects • Major capital projects budgeted at a cost of less than \$10,000,000. • Includes renovations, new construction, equipment installation, infrastructure, and other types of projects. Projects address near term needs and many are in support of new faculty and research initiatives. • Specific projects anticipated to advance in 2019-20 include CNPRC Lifespan Health, C.N. Gorman Museum Relocation, Kemper Courtyard, Tupper Hall Renovations, and the Buildout of Shelled Space - TLC. • Projects are under study to prioritize those with the highest value for advancing the campus mission projects which include, but are not limited to, the following: <ul style="list-style-type: none"> Neuroscience Renovations Biological Sciences Renovations Seismic Corrections Social Sciences and Humanities Renovations Welcome Center School of Education Renovations Chemistry Renovations School of Law Renovations Engineering Renovations School of Veterinary Medicine Renovations HARCS Renovations CAES Renovations Academic Surge Renovations Bainer Renovations Briggs Hall Renovations Hutchison Renovations Kemper Hall Renovations Meyer Hall Renovations Roessler Hall Renovations Animal Sciences Teaching Facility Various Building Demolitions Mann Lab Renovations
Deferred Maintenance	EF	60,000	<ul style="list-style-type: none"> • Addresses high priority deferred maintenance across the campus that improves quality of campus space, promotes stewardship of existing facilities, and reinvests to repair and modernize assets. • Ongoing program receiving annual infusions of funds via Century Bond proceeds; \$15 million annually 2017-18 through 2019-20.
Seismic Corrections	CF	10,000	<ul style="list-style-type: none"> • TBD ASF/TBD GSF • Addresses seismic corrections for select campus structures. • Will include the buildings based on priority, timing, types of occupancy, other project schedules, and critical functional needs. • Anticipated identification of specific structures pending outcome of current structural and risk analysis under current methodologies and code impacts due to renovation projects.
Infrastructure Improvements	EF	60,000	<ul style="list-style-type: none"> • NA ASF/NA GSF • Addresses the highest priority campus need for infrastructure renewal and/or expansion to support growth. • Not all projects will be moved forward within this budget. • High priorities for 2019-20: addressing the campus's aging steam infrastructure, boilers, and heat generation at the main Central Plant, electrical improvements, and the CNPRC Central Plant. • Campus is conducting assessments to prioritize projects with the highest value for advancing the campus mission and address the most critical infrastructure needs. • Campus infrastructure priorities may evolve over the six-year implementation period of this plan, and the Campus will continue to re-evaluate priority needs. It is anticipated that this list will grow over time. • Current potential infrastructure renewal projects include, but are not limited to, the following: <ul style="list-style-type: none"> Smart Lighting Initiative (future phases) Utility Water Well Replacement

Project	Sources	Current Term Budget	Project Summary
			<ul style="list-style-type: none"> Utility Water Well Pipe Improvements CNPRC Boiler + Chiller Replacement Steam System Renewal Campus Wastewater Treatment Plant Improvement Storm Water Improvements Phase 1 (Detention) Domestic Water Wells Replacement IT Infrastructure Phase 1 & 2 Substation Transformers Integration Lighting Improvements Barryessa Water Treatment Plant Campus Waste Management Improvements Orchard Park Connectivity Improvements Garrod and La Rue Realignment Sanitary Sewer Lift Station and Pump Improvements Boiler #1 and #2 Replacement Electrical Improvements Hutchison and 113 on ramp/ off ramp Improvements Hot Water Distribution Chilled Water System Improvements Tank Addition Dom. Water System Improvements Central Plant Boiler Replacement Transformer Replacements CNPRC Central Plant Improvements Campus Water Source Improvements West Campus Connectivity Improvements Traffic and Safety Improvements Bike and Pedestrian Improvements Natural Gas System Improvements
Aggie Square Phase 1	P3	TBD	<ul style="list-style-type: none"> • 1,650,000 ASF/ 2,400,000 GSF • New mixed-use innovation district located on the Sacramento campus. • Delivers high technology innovation, research and development, housing, and community-services spaces on approximately 11 acres. • Approximately 200 to 300 multi-family apartments. • Anticipated to be delivered via a public-private partnership.
Aggie Square Parking	P3	40,000	<ul style="list-style-type: none"> • NA ASF / NA GSF • New parking to accommodate replacement parking and demand due to Aggie Square Phase 1 buildout.
AUXILIARY PROJECTS			
Orchard Park Redevelopment	P3	300,000	<ul style="list-style-type: none"> • 438,900 ASF/ 627,000 GSF • Redevelops the Orchard Park apartment community. • Constructs new apartments for student housing. Constructs higher density housing on the site. • Project anticipated to be delivered via a public-private partnership. • The project will replace the previous student housing apartments and explore options to densify development on the site to provide additional housing for students and university affiliates. Affordability is a primary driver, which is likely to be accomplished through a multimodal approach to the student housing portfolio.
Auxiliary Projects < \$10M	AR, EF, GF	40,000	<ul style="list-style-type: none"> • TBD ASF/TBD GSF • Addresses various renewal efforts in Student Affairs, including energy efficiency, deferred maintenance, space reconfigurations resulting from Division-wide reorganizations, and cost-cutting upgrades. • Comprises several bundled projects for Student Housing and Dining to accomplish deferred maintenance and building upgrades and corrections. • Captures the major gift-driven initiative targets established by Intercollegiate Athletics. • Addresses the objectives of donor-development programs. • Includes capital improvement projects 2019-20 through the planning period 2025-26. • Projects include, but are not limited to the following: window coverings, fire panels and sprinkler heads improvements, access/security upgrades, chiller pump and piping installation, flooring repairs and replacements, AV and IT upgrades, signage improvements, bike storage enhancements, restroom upgrades, lighting replacements, and demolition projects.
Student Athlete Performance Center	EF, GF, HR	52,000	<ul style="list-style-type: none"> • 34,000 ASF / 49,000 GSF new space, 9,500 ASF / 13,500 GSF renovation • Develops a state-of-the-art performance center for Intercollegiate Athletics (ICA) to support the health and well-being of student athletes. <ul style="list-style-type: none"> o Renovation of Bob Foster: approximately 13,500 square feet o New Construction: approximately 49,000 square feet • Assists with recruitment, better aligns ICA's facilities portfolio with conference and national opponents, and provides student athletes with a centralized location for sports performance facilities. • Delivers an athletics training facility and performance center with equipment and resources in alignment with other NCAA Division 1 universities. • Includes a sports medicine area with spaces for rehabilitation, treatment, hydrotherapy, and training offices; sports performance center with weight and cardio equipment areas, fuel station and supporting offices for strength and conditioning coaches; and an auditorium for academics and team meetings, classrooms in multiple sizes, and an athletes lounge. • Renovates a portion of the existing Bob Foster and ticketing buildings at Aggie Stadium.
Education Health Projects			
Veterinary Medical Center	EF, GF	488,535	<ul style="list-style-type: none"> • Approximately 400,000 total GSF new or renovated • The existing Vet Med Teaching Hospital (VMTH) is the oldest Veterinary Medicine Teaching Hospital in the country; the existing facility is more than 40 years old and faces obsolescence. • Phased series of projects deliver the vision for the Veterinary Medical Center (VMC) by construction a replacement Veterinary Medical Center and renewing the existing facility.

Project	Sources	Current Term Budget	Project Summary
			<ul style="list-style-type: none"> Provides new equine performance and clinical facilities, livestock medical facilities, small animal care facilities, large animal support facilities, a visioning center, renewal of the existing community practice (CCAH), and renovation of the existing Vet Med Teaching Hospital to be repurposed for related uses. Includes necessary utility improvements in the projects to complete the vision. Central campus to fund \$25 million infrastructure improvements in support of development efforts and improvements in the Health Sciences District, including the previously approved VMC SUP Primary Electrical Feeders. Projects will be phased and approved based on availability of gift funds.

Capital Need with Funding Not Identified

Project	Sources	Current Term Budget	Project Summary
EDUCATION AND GENERAL PROJECTS			
Asmundson Renovations (Seismic and Deferred Maintenance Retrofits)	SE	25,000	<ul style="list-style-type: none"> 15,889 ASF / 28,428 GSF A component of the campus's Project 4 General Obligation Bond proposal. Relocates Plant Sciences laboratories to Sprocket. Relocates internal occupants to clear critical areas for seismic upgrades. Corrects seismic deficiencies and renews the facility. Addresses critical deferred maintenance issues . Renovates vacated laboratories for new faculty and upgrades areas within the facility for modern use. Corrects accessibility issues, fire/life-safety systems, and mechanical, electrical, and plumbing systems as applicable.
Bainer Hall Renovation (Deferred Maintenance Driven Leverage)	SE	32,000	<ul style="list-style-type: none"> 122,658 ASF / 166,852 GSF A component of the campus's Project 2 General Obligation Bond proposal. Internal relocation of research laboratories. Renovates corridors and restrooms. Corrects seismic deficiencies and renews the facility. Addresses critical deferred maintenance issues . Corrects accessibility issues, fire/life-safety systems, and mechanical, electrical, and plumbing systems as applicable.
Chemistry Renovations (Deferred Maintenance Driven Leverage)	SE	21,000	<ul style="list-style-type: none"> 122,658 ASF / 166,852 GSF A component of the campus's Project 2 General Obligation Bond proposal. Renovation of laboratories in south with and expanded fume hood capacity. Renews the facility. Addresses critical deferred maintenance issues. Corrects mechanical, electrical, and plumbing systems, and provides new HVAC zones as applicable.
Demolition (Teaching Labs Leverage)	SE	65,000	<ul style="list-style-type: none"> TBD ASF / TBD GSF Demolishes various buildings and structures throughout campus. Reduces deferred maintenance and seismic need. Relocates occupants to various other locations in preparation for demolition.
Everson Hall Renovation (Program-Driven Seismic Leverage)	SE	50,000	<ul style="list-style-type: none"> 27,805 ASF / 51,984 GSF A component of the campus's Project 1 General Obligation Bond proposal. Relocates various programs and offices to other buildings or internally to enhance operations and efficiencies. Renovates vacated north wing to teaching labs and teaching assistant space. Corrects seismic deficiencies and renews the facility. Addresses critical deferred maintenance issues. Corrects accessibility issues, fire/life-safety systems, and mechanical, electrical, and plumbing systems as applicable.
Hickey Gym Renovation (Program-Driven Seismic Leverage)	SE	77,000	<ul style="list-style-type: none"> 60,218 ASF / 117,804 GSF A component of the campus's Project 1 General Obligation Bond proposal. Relocates various classrooms and offices to other buildings or internally to enhance operations and accommodate seismic work. Renovates corridors and restrooms. Corrects seismic deficiencies and renews the facility. Addresses critical deferred maintenance issues. Corrects accessibility issues, fire/life-safety systems, and mechanical, electrical, and plumbing systems as applicable.
Hunt Hall 2 nd Floor Renovation (Program-Driven Seismic Leverage)	SE	20,000	<ul style="list-style-type: none"> 18,000 ASF / 28,000 GSF Renovates second floor of Hunt Hall to accommodate the relocation of departments to best serve emerging space needs and provide adequate adjacencies for departments. Converts outdated lab space into offices with minimal reconfiguration. Accommodates future growth based on hiring priorities. Provides modern & efficient space layouts; updates lighting and finishes. Upgrades systems to modernize Hunt Hall and addresses life safety and building systems as necessary (including fire sprinklers, elevator upgrades, accessibility, HVAC, etc.).

Project	Sources	Current Term Budget	Project Summary
			<ul style="list-style-type: none"> Provides for office, workstation, computer lab and other support space; removes/replaces lab-specific building systems with new office type systems. Modifies the existing interior space configuration to provide more flexible office configurations with formal and informal meeting space, and provides additional capacity and supports collaboration.
Kemper Hall Renovations (Seismic and Deferred Maintenance Retrofits)	SE	60,000	<ul style="list-style-type: none"> 111,488 ASF / 188,900 GSF A component of the campus's Project 4 General Obligation Bond proposal. Relocates various occupants to accommodate seismic work. Renovates corridors and restrooms. Corrects seismic deficiencies and renews the facility. Corrects courtyard issues. Addresses critical deferred maintenance issues. Corrects accessibility issues, fire/life-safety systems, and mechanical, electrical, and plumbing systems as applicable.
Wickson Hall Renovation (Deferred Maintenance Driven Leverage)	SE	65,000	<ul style="list-style-type: none"> Existing Facility: 67,000 ASF/113,000 GSF A component of the campus's Project 1 General Obligation Bond proposal. Relocates occupants internally and externally to accommodate seismic work. Corrects seismic deficiencies, replaces obsolete building systems, and renews the facility. Renovates classroom and open laboratory, vacated quadrant for teaching laboratories and teaching assistant support, corridors and restrooms. Corrects accessibility issues, fire/life-safety systems, and mechanical, electrical, and plumbing systems as applicable.
Physics Renovation (Deferred Maintenance Driven Leverage)	SE	20,000	<ul style="list-style-type: none"> 66,864 ASF / 116,921 GSF A component of the campus's Project 2 General Obligation Bond proposal. Relocates research laboratories internally as well as various occupants to accommodate seismic work. Renovates classrooms on the first floor, the teaching and open laboratory, and the corridors and restrooms. Corrects seismic deficiencies and renews the facility. Addresses critical deferred maintenance issues. Corrects accessibility issues, fire/life-safety systems, and mechanical, electrical, and plumbing systems as applicable.
Seismic Corrections	SE, NSE	370,000	<ul style="list-style-type: none"> TBD ASF / TBD GSF Addresses seismic corrections for select campus structures. Will include the buildings based on priority, timing, types of occupancy, other project schedules, and critical functional needs. Anticipated identification of specific structures pending outcome of current structural and risk analysis under current methodologies and code impacts due to renovation projects.
Social Sciences and Humanities Renovation (Seismic and Deferred Maintenance Retrofits)	SE	30,000	<ul style="list-style-type: none"> 84,742 ASF / 172,655 GSF A component of the campus's Project 4 General Obligation Bond proposal. Relocates various occupants internally to accommodate seismic work. Renovates corridors and restrooms. Corrects seismic deficiencies and renews the facility. Addresses critical deferred maintenance issues. Corrects accessibility issues, fire/life-safety systems, and mechanical, electrical, and plumbing systems as applicable.
Sprocket Renovation (Program-Driven Seismic Leverage)	SE	12,000	<ul style="list-style-type: none"> 13,779 ASF / 19,829 GSF A component of the campus's Project 1 General Obligation Bond proposal. Relocates various occupants to other campus buildings to improve adjacencies. Renovates vacated space for research labs to be relocated from other campus buildings. Corrects seismic deficiencies and renews the facility. Addresses critical deferred maintenance issues. Corrects accessibility issues, fire/life-safety systems, and mechanical, electrical, and plumbing systems as applicable.
Teaching Lab Center (Teaching Labs Leverage)	SE	120,000	<ul style="list-style-type: none"> 54,000 ASF / 75,600 GSF A component of the campus's Project 3 General Obligation Bond proposal. Constructs new facility with teaching laboratories, classroom laboratories in support of virtual learning, and student support spaces.
Voorhies Renovations (Seismic and Deferred Maintenance Retrofits)	SE	30,000	<ul style="list-style-type: none"> 13,779 ASF / 19,829 GSF A component of the campus's Project 4 General Obligation Bond proposal. Relocates various occupants internally to accommodate seismic work. Corrects seismic deficiencies and renews the facility. Addresses critical deferred maintenance issues. Corrects accessibility issues, fire/life-safety systems, and mechanical, electrical, and plumbing systems as applicable.
Young Hall Renovation (Program-Driven Seismic Leverage)	SE	45,000	<ul style="list-style-type: none"> 53,685 ASF / 90,058 GSF A component of the campus's Project 1 General Obligation Bond proposal. Corrects seismic deficiencies, replaces obsolete building systems, and renews the facility. Renovates vacated space to teaching labs and teaching assistant support space. Also renovates existing teaching labs and classrooms, corridors, restrooms, and the thirds floor. Builds new animal support facility at Health Sciences District Corrects accessibility issues, fire/life-safety systems, and mechanical, electrical, and plumbing systems as applicable.
AUXILIARY PROJECTS			
Transportation Infrastructure Program	NSE	25,000	<ul style="list-style-type: none"> NA ASF / NA GSF Addresses the highest priority campus need for infrastructure renewal and/or expansion to support growth.

Project	Sources	Current Term Budget	Project Summary
			<ul style="list-style-type: none">• Not all projects will be moved forward within this budget.• High priorities for 2019-20: addressing the campus's pedestrian, vehicular, and bicycle circulation.• Campus is conducting assessments to prioritize projects with the highest value for advancing the campus mission and address the most critical transportation needs.• Campus infrastructure priorities may evolve, and the campus will continue to re-evaluate priority needs. It is anticipated that this list will grow over time.