

**UNIVERSITY OF HAWAII
CAPITAL IMPROVEMENTS PROGRAM
FISCAL BIENNIUM 2005-2007
SUPPLEMENTAL YEAR 2006-2007
(In Thousands)**

Supplemental Priority Number	Project	Program ID	Amount Required	Justification
			2006-2007	
1	Health, Safety, and Code Requirements University of Hawaii--Systemwide	UOH 900		<p>This project provides for correction of identified health, safety, and code deficiencies for University Programs, Systemwide.</p> <p><u>University of Hawaii--System</u> - projects to be undertaken include:</p> <ul style="list-style-type: none"> • Installation of an Elevator at Bachman Hall <p><u>University of Hawaii at Manoa</u> - projects to be undertaken include:</p> <ul style="list-style-type: none"> • Planning for an Emergency Operations Center • Video Surveillance Cameras • Access Control and Card Swipes • Air Conditioning Upgrades to Eradicate Mold - Orvis Auditorium, Speech Pathology Building, Physical Education Administration Building, and Hawaii Institute of Marine Biology (Coconut Island) • Waikiki Aquarium Electrical Repairs/Upgrades <p><u>University of Hawaii at Hilo</u> - projects to be undertaken include:</p> <ul style="list-style-type: none"> • Air Conditioning Upgrades to Eradicate Mold - Computing Center, College of Agriculture, College Hall C, and Edith Kanakaole Hall • Main Entrance Traffic Light Improvements <p><u>Honolulu Community College</u> - projects to be undertaken include:</p> <ul style="list-style-type: none"> • Correct Spalling on Building 8802 <p><u>Leeward Community College</u> - projects to be undertaken include:</p> <ul style="list-style-type: none"> • Elevator Improvements for the Arts & Music and Campus Center Buildings
	<p>Plans, design, and construction for modifications to existing facilities and/or construction of new facilities for health, safety, and code requirements.</p> <p style="margin-left: 40px;">Plans 50 C</p> <p style="margin-left: 40px;">Design 856 C</p> <p style="margin-left: 40px;">Construction 11,760 C</p> <p style="margin-left: 40px;">Equipment -</p> <hr/> <p style="margin-left: 40px;">Biennium Request 12,666</p> <p>Senatorial District: Statewide Representative District: Statewide</p>			

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2	Capital Renewal and Deferred Maintenance University of Hawaii--Systemwide	UOH 900		<p>The University of Hawaii's physical plant has accumulated a backlog of repairs and maintenance (R&M) due to the lack of general funds. This project includes reroofing, mechanical and electrical systems, renovations, resurfacing, repainting, and other improvements and project costs to upgrade facilities at all University campuses.</p> <p>Facilities provide the centerpiece around which all other educational activities exist at higher education institutions. The total replacement value of all University of Hawaii facilities is estimated at \$1.6 billion. Therefore, it is imperative to reinvest in the University's physical plant to ensure that the physical infrastructure facilitates the mission of the institution.</p> <p>The role of R&M is to maintain the physical infrastructure and facilities of our campuses so that they are functional, architecturally sound, aesthetically pleasing, and in compliance with building and safety codes to support quality instruction, research, student, and community services programs.</p>
	Plans 500 C Design 2,000 C Construction 85,899 C Equipment 1 C <u>Biennium Request</u> 88,400			
	Senatorial District: Statewide Representative District: Statewide			

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3	Infrastructure Improvements University of Hawaii–Systemwide	UOH 900		<p>This project provides for infrastructure improvements to support University of Hawaii campuses, Systemwide. The project provides for utility (electrical, telecommunications, water) requirements, sewer, drainage, roadway, and erosion-prevention improvements. The current request includes improvements at the University of Hawaii at Manoa, University of Hawaii at Hilo, and the Community Colleges.</p> <p><u>University of Hawaii at Manoa</u> Projects to be undertaken at the University of Hawaii at Manoa include:</p> <ul style="list-style-type: none"> • Lighting Retrofits - Energy Conservation Modifications • Shore Protection and Seawall Repair at Coconut Island <p><u>University of Hawaii at Hilo</u> Projects to be undertaken at the University of Hawaii at Hilo include:</p> <ul style="list-style-type: none"> • Campus Sewer Line Improvements • Utility Grid, Phase IV • Theater and Old Gym Entrance Improvements <p><u>Community College System</u> Projects to be undertaken at the University of Hawaii–Community Colleges include:</p> <ul style="list-style-type: none"> • Electrical System Assessments at All Community College Campuses
	<p>Plans, design, construction, and equipment for infrastructure and related improvements at University campuses, Systemwide.</p> <p>Plans 650 C Design 1,136 C Construction 2,685 C Equipment 50 C</p> <hr/> <p>Biennium Request 4,521</p> <p>Senatorial District: Statewide Representative District: Statewide</p>			

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4	Science and Technology Building, Phase I University of Hawaii at Hilo Design, construction, and equipment for the Sciences and Technology Building. Project to include ground and site improvements, equipment and appurtenances, and all related project costs. Plans Design Construction Equipment Biennium Request Senatorial District: 1 Representative District: 2	UOH 210	-	The science and technology instructional and research programs at the University of Hawaii at Hilo require expanded space and modern state of the art laboratory facilities. This facility will house both classrooms and research facilities and thus support expansion of student enrollment in science and technology as well as sponsored research by faculty. The Big Island economy will benefit by the spending associated with increased student enrollment and increased research activity in this facility. The facility will serve as an "incubator" of innovation and new technologies and products which have the potential of being the basis of entirely new businesses and industries in Hawaii. Because of this role as a stimulus of new economic activity in Hawaii and training ground for Hawaii's future technology workforce, this facility has the potential to produce a benefit to the economy of Hawaii that is many times the amount of the initial capital investment.
			1 C	
			2,499 C	
			2,500 C	
			5,000	

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5	<p>New Classroom Building University of Hawaii at Manoa</p> <p>Design for a new undergraduate education complex at the University of Hawaii at Manoa.</p> <p>Plans Design Construction Equipment</p> <hr/> <p>Biennium Request</p> <p>Senatorial District: 10 Representative District: 24</p>	UOH 100	–	<p>The project is to design a new classroom and office building on the Manoa campus. Many of the campus buildings are old, obsolete, and lack quality space. This project will address significant problems related to the deteriorating state of many of our classroom facilities, the general lack of larger classrooms and office space to support the undergraduate education program and growing number of campuswide programs. The project will enable the University of Hawaii at Manoa to expand the classroom selections to accommodate current and near term enrollment projections, provide greater efficiencies and utilization of space, and improve our educational effectiveness.</p> <p>The development of a new classroom and office complex will also provide the University an opportunity to use the space as a surge area for programs affected by major renovations that are planned in the near term.</p> <p>Upon completion of the project, the students and faculty will be provided with modern and adequate classrooms and offices to meet ongoing demands for adequate instructional facilities.</p>
			3,845 C	
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			–	
			3,845	

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6	Gartley Hall Renovation University of Hawaii at Manoa	UOH 100		<p>Gartley Hall was originally constructed in 1921 and is one of the oldest buildings on the Manoa Campus in use today. It is one of five buildings in the "Old Quadrangle" listed in the State and National Registers of Historic Places.</p> <p>A project development report is currently being produced which will address the current and future occupant and program requirements in the building. This report will propose alternatives in modifying the spaces for more efficient and effective instruction and research.</p> <p>Other than routine repairs and maintenance, Gartley Hall has not undergone a major renovation. This project will renovate the facility to: maximize the use of space; correct health, safety, and other code deficiencies; and make the facility accessible to people with disabilities.</p> <p>Upon completion of the project, the academic programs will be provided with modern and adequate offices, seminar rooms, and conference rooms to meet instructional and research needs.</p>
	<p>Design for the renovation of Gartley Hall. Project to include ground and site improvements, equipment and appurtenances, and all related project costs.</p> <p>Plans Design Construction Equipment</p> <hr/> <p>Biennium Request</p> <p>Senatorial District: 10 Representative District: 24</p>		<p>– 951 C – –</p> <hr/> <p>951</p>	

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7	Library and Learning Resources Center Windward Community College	UOH 800		<p>This project will provide an integrated library, media, learning assistance, and computer center for Windward Community College.</p> <p>The project will consolidate the College's library, media, learning assistance, and computer centers into a single integrated facility. The integrated facility will allow the College to provide more centralized, efficient and up to date services to students, faculty and staff in an environment where responsiveness to changes in information and technology is crucial.</p> <p>The College programs that will be housed in the new building are currently located in facilities (former State Hospital Ward buildings) that are entirely inadequate for college level needs. As a consequence, Windward students do not have access to an academic infrastructure that is supported by current and integrated information technologies. It is essential that Windward Community College construct a facility that can serve as the focal point for research and study, to provide students, academic personnel, and community users with access to informational resources and up to date academic support.</p>
	<p>Design for a new Library and Learning Resources Center. Project to include ground and site improvements, equipment and appurtenances, infrastructure, parking, and all related project costs.</p> <p>Plans Design Construction Equipment</p> <hr/> <p>Biennium Request</p>		<p>– 2,590 C – –</p> <hr/> <p>2,590</p>	
	<p>Senatorial District: 24 Representative District: 48</p>			

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8	Science and Technology Facility Honolulu Community College	UOH 800		<p>This project will provide a new Science and Technology Facility at Honolulu Community College. The new multi-story facility will include classrooms, offices, and laboratories for various science and technology related programs.</p> <p>Honolulu Community College serves as the primary technological training center of the University of Hawai'i Community Colleges. The technology programs offered at the College require a sound understanding of scientific principles and thus creates a strong demand for instruction in the basic sciences. The College's science programs, however, are located in various older facilities throughout the campus. These programs are supported by substandard and outdated laboratory facilities that make it difficult to deliver instruction in scientific and technology fundamentals, much less instruction that involves cutting edge science and technology.</p> <p>The cornerstone of developing the College's primary area of focus is the design and construction of a Science and Technology Center. The development of this facility will elevate the level of scientific and technological instruction, promote innovation and excellence within the College, and ultimately increase the ability of the State to compete in current and emerging scientific and technology fields.</p>
	<p>Plans and design for the science and technology facility at Honolulu Community College.</p> <p>Plans 343 C Design 2,347 C Construction - Equipment - <u>Biennium Request</u> 2,690</p> <p>Senatorial District: 12 Representative District: 28</p>			

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9	Pacific Aerospace Training Center, Reroof Hangar 111 Honolulu Community College Design and construction for the replacement of the roof for Hangar 111. Plans Design Construction <u>Equipment</u> Biennium Request Senatorial District: 19 Representative District: 40	UOH 800	-	This project will reroof Hangar 111 at Kalaeloa for the Pacific Aerospace Training Center (PATC). The existing roofing system is old and leaking and must be replaced. Prior improvements made by the State to repair and upgrade the facility's basic infrastructure and renovate spaces to make the facility suitable for the delivery of instructional training, may be jeopardized. The leaking roof could also ruin building contents and lead to the accelerated deterioration of the facility as a whole. Hangar 111 is an essential component of the College's effort to expand Hawaii's aviation training services and develop Hawaii as the premier Asian-Pacific Center for aviation training and services. Failure to repair the facility will negatively impact the College's ability to establish the PATC and further the State's initiative to stimulate economic development through the expansion of Hawaii's aviation training services.
			224 C	
			2,335 C	
			-	
			2,559	

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10	Student Services Building Addition and Renovation University of Hawaii at Hilo	UOH 210		<p>This project will renovate and construct an addition to the existing Student Services Building to consolidate Student Services programs and facilitate future program expansion. Additionally, the project will provide space for the Chancellor's Office, University Relations, Business Office, Human Relations, and other administrative areas. The Student Services Building was built over 25 years ago. It was originally designed as an Administrative Building, however, due to expanding student enrollment and programs, the administrative function was forced out of the building. The continued growth has made conditions at the Student Services Building overcrowded.</p>
	<p>Plans Design Construction Equipment</p> <hr/> <p>Biennium Request</p>		<p style="text-align: right;">-</p> <p style="text-align: right;">1 C</p> <p style="text-align: right;">21,044 C</p> <p style="text-align: right;">-</p> <p style="text-align: right;">21,045</p>	
	<p>Senatorial District: 1 Representative District: 2</p>			

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11	<p>Information Technology Center University of Hawaii–Systemwide</p> <p>Design for an information technology center building to service the University of Hawaii System. Project to be located on the campus of the University of Hawaii at Manoa.</p> <p>Plans Design Construction Equipment</p> <p>Biennium Request</p> <p>Senatorial District: 10 Representative District: 24</p>	UOH 900	–	<p>Although information technologies are increasingly the core of knowledge-based institutions such as universities, the University of Hawaii has shoehorned its core technology infrastructure and primary service points into any available space on a piecemeal basis for more than 20 years. As a result, the campus computing center, data communications hub, phone system, and video hub—all items that need to be interconnected—are disbursed throughout the University of Hawaii at Manoa campus, none having adequate backup power, air conditioning, or security appropriate to their importance and falling short of standards that are common to industry practice. The new Information Technology Services Building will serve two primary functions:</p> <p>1) Provide the first properly designed and supported "machine room" facilities for the University that will enable the provision of reliable university-wide technology services commensurate with common practice in higher education. The professionally designed facilities will house central computing, data, voice, and video resources with reliable power and air conditioning, facilitate disaster recovery planning, and economize on the personnel now required to manage and support each technology independently to be able to provide 24 hour/7 day a week service as required by the University community to support instruction, research, service, and administration.</p> <p>2) Provide modern new spaces to support students and faculty engaged in teaching and learning with technology. This will include a computer laboratory that can be made available to students on a 24 hour per day basis, a variety of different-sized classrooms equipped with technology to support distance learning and in-class use of advanced technologies, and laboratory spaces for faculty and students to develop instructional technology resources individually and in teams. Housing these service facilities in one place will improve the quality and cost-effectiveness of support available to faculty and students.</p>
			4,022 C	
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			4,022	

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12	Institute for Astronomy, Advanced Technology Research Center in Kula University of Hawaii at Manoa Equipment for the Institute for Astronomy's Advanced Technology Research Center at Kula. Project to include equipment and appurtenances, and all related project costs. Plans Land Design Construction Equipment Biennium Request Senatorial District: 6 Representative District: 12	UOH 100	– – – – 2,000 C	The University of Hawaii is currently developing an \$8.6 million Advanced Technology Research Center (ATRC) in Kula. The research facility includes offices for scientific and engineering/technical personnel, optics and detector/instrument laboratories, electronic shop, a clean room, vacuum and cryogenic support areas, instrumentation fabrication, staging and testing facilities, computer support and remote observing rooms, telescope simulation room, and living quarters to accommodate visiting astronomers. The current request is for scientific laboratory equipment which will complete the facility. Scientific laboratory equipment is necessary to make the improvements functional. Included in the request is a high speed data farming infrastructure, turbomolecular vacuum systems, optical systems, cryogenic systems, precision metrology, and micro-fabrication equipment.
			2,000	

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13	Campus Development University of Hawaii–West Oahu			<p>This project provides for the design of the first increment of the University of Hawaii–West Oahu campus in Kapolei and the construction of on- and off-site infrastructure improvements to serve the campus and other University owned properties.</p> <p>This project will involve the construction of a new four-year undergraduate college campus located in Kapolei. This campus will meet the growing needs of communities in Central and Leeward Oahu, where already there are more than 71,000 K-12 students. The University of Hawaii–West Oahu is planned to meet the needs of commuters, older students, working students, and those interested in professional education.</p> <p>The academic program is currently organized around four interdisciplinary degrees: Humanities, Social Sciences, Public Administration, and Business Administration. These programs and the thirteen concentration areas they serve are all expected to grow when the lower two years of the curriculum are implemented. The University of Hawaii–West Oahu has been authorized to develop an additional two degree programs, a Bachelor of Education and a Bachelor of Applied Sciences. Within each of these degrees there will be multiple areas of concentration. For example, the Bachelor of Applied Sciences will encompass several allied health programs in fields such as respiratory therapy, occupational therapy, and physical therapy. In education, programs will include early childhood, elementary education, and probably a post-baccalaureate certificate in secondary education. These programs will require not only larger, but also more complex facilities such as laboratories and clinical practice areas. The campus will additionally provide opportunities for students to work and participate in internships on and off campus.</p>
	<p>Design and construction for the development of the University of Hawaii–West Oahu. Project to include ground and site improvements, construction of infrastructure and new facilities, and all project related costs.</p> <p>Plans –</p> <p>Design 8,553 C</p> <p>Construction 25,000 C</p> <p>Equipment –</p> <p>Biennium Request 33,553</p> <p>Senatorial District: 19</p> <p>Representative District: 40</p>			

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14	Major CIP Planning University of Hawaii--Systemwide	UOH 900		<p>This project provides for major CIP planning for University of Hawaii Programs, Systemwide. The current request includes planning documents for the University of Hawaii at Manoa, University of Hawaii at Hilo, and various Community College campuses.</p> <p><u>Long Range Development Plans</u> Long Range Development Plans (LRDP) are required for all University campuses as they provide the foundation for a comprehensive and cohesive campus design utilizing facilities to meet the educational goals and needs of the University. The University will update campus LRDPs to ensure the long range physical development plan conforms with academic strategic plans. LRDPs included in this request include: University of Hawaii at Hilo (main campus and off campus properties), Honolulu Community College (main campus and Marine Education Training Center property), and the University Center at West Hawaii.</p> <p><u>Project Development Reports</u> Advanced planning for new facilities and renovations of existing buildings have proven to be an integral part of the capital improvements program process. This request provides for the preparation of definitive program statements, cost estimates, and logistical timetables for project implementation. The following is a list of PDRs requested:</p> <ul style="list-style-type: none"> • <u>University of Hawaii at Manoa</u>: Edmondson and Snyder Hall Complex Redevelopment and Law School Expansion.
	<p>Plans for University of Hawaii programs. Project to include long range development plans, including updates of long range development plans for various University campuses, project development reports, and other planning documents.</p> <p>Plans 3,206 C Design - Construction - Equipment -</p> <p>Biennium Request 3,206</p> <p>Senatorial District: Statewide Representative District: Statewide</p>			

