

College of Natural and Behavioral Sciences Facilities and Space Master Plan 2007-2011

Approved AAFS – April 2007

Academic Affairs Objectives	College Objectives	Implemt Timeline	Group 1 Space & Facilities ¹	Group 2 Fixtures, Furniture, & Equipment	Instructionally Related Equipment (IRE) ²	Replacement & Maintenance ³
AP1.1) Initiate new programs designed to be responsive to the needs of our current students and the communities we serve.	NBS 1.1.1) Build, secure initial grant funding, find projects, get NBS departments and faculty involved, build links with campus community, off-campus organizations, international organizations for new NBS Centers. (NBS SP1.1)					
	NBS 1.1.1a) Urban Community Research Center (NBS SP 1.1.1)	2006-2007				
	NBS 1.1.1b) Center for Urban Environmental Research (NBS SP 1.1.2)	2007-2011-2006-2007				
	NBS 1.1.2) Build undergrad and grad Science Education programs for prospective and practicing science teachers. Ongoing effort supported by QED partnership, Center for Math & Science Education, NBS departments. (NBS SP 1.2)	2006-2011	EAR/SMT 1.1.2.a New dedicated SMT416 Earth Sciences for Teachers Laboratory.	EAR/SMT 1.1.2.a.1 Chairs & desks work-stations x24, ETC capability	EAR/SMT 1.1.2.a.1.1 Sliding white board,	Optical microscopes x12 Microscope lights x12
			CSC 1.1.2 Lab spaces x2 for BA Computer Technology (25-30)		CSC 1.1.2a PC lab w/ digital logic software & hardware (25); ETC; whiteboard CSC 1.1.2b Lab w. forensic software & related equipments; ETC; whiteboard	
NBS 1.1.3) Master's program should be available to every department (NBS SP 1.4)	2010-2011					
NBS 1.1.4) Interdisciplinary master's programs will be an important step toward achieving this goal. By 2010 every discipline should participate in a department based or interdisciplinary master's program. (NBS SP 1.4.1)	2008-2009					

¹ Includes new construction (e.g., electrical, plumbing) or renovation of existing space (e.g., attached podiums/projectors for enhanced technology classroom (ETC)). May be eligible for Minor Capital Outlay funds.

² Instructionally Related Equipment (IRE) includes microscopes, kilns, potter wheels, DVDs and computers for ETC, etc.

³ Replacement and/or maintenance of Group 1, Group 2, and/or IRE

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	NBS 1.1.5) Develop Urban Community Research Center and Center for Urban Environmental Research as key revenue generators providing funds for programs throughout the college (NBS SP 6.1)	2007-2008				
AP1.2) Initiate and offer academic and academic support programs that attract the full continuum of traditional and non-traditional college-age students from fully admissible to high achieving.	NBS 1.1.1) Build, secure initial grant funding, find projects, get NBS departments and faculty involved, build links with campus community, off-campus organizations, international organizations for new NBS Centers. (NBS SP 1.1.1)	2006-2007				
	NBS 1.1.1c) Center for Excellence in Knowledge Management and Computational Science (NBS SP1.1.3)	2006-2007	CSC 1.1.1c) Office for the director and the assistant Research office x3 Research Lab x5	CSC 1.1.1c) Faculty office furniture x2		
	NBS 1.2.1) Obtain state approval for Subject Matter Preparation (“waiver”) program for prospective high school science teachers. (NBS SP 1.2.1)	2006-2007				
	NBS 1.2.2) Create direct path freshman year to teacher induction for future science math teachers. (NBS SP 1.2.2)	2007-2008				
	NBS 1.2.3) Find means to build programs that connect departments from different colleges. (NBS SP 1.4.1.1)	2006-2007				
AP1.3) Strengthen and support existing academic programs and provide the resources faculty need for excellence.	NBS 1.3.1) Offer more Friday, evening and weekend classes, and hybrid on-line/on-campus classes (NBS SP 1.8)	2006-2009				
	NBS 1.3.4) Obtain new science building, research labs for faculty. (NBS SP 4.1)	2010-2011	NBS 1.3.4a Science building with research labs for faculty			
	NBS 1.3.5) Allocate existing space more effectively. (NBS SP 4.2)	2008-2009				
	NBS 1.3.5a) Create/revive NBS Space Allocation Committee. Develop objective criteria for evaluating space needs and requests. NBS SP 4.2.1)	2006-2007				

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	<p>NBS 1.3.6) Improve quality of research and instructional equipment, labs and faculty offices to meet or exceed CSU standards. Replace outdated/broken/unsafe equipment/furniture. (NBS SP 4.3)</p>	<p>2008-2009</p>	<p>SOC 1.3.6.a Sociology Computer Lab (30)</p> <p>SOC 1.3.6.b Telephone Room with 8 station telephone bank</p> <p>SOC 1.3.6.c Focus/small Group Conference Room (12)</p> <p>SOC 1.3.6.d Office-Lab Administrator</p> <p>SOC 1.3.6.e Community Studies Lab (6 seat)</p> <p>SOC 1.3.6.f Private offices x2 (confidential interviews)</p>	<p>SOC 1.3.6.a.1. IMAC computer work stations x30, Pull down screen Digital projector, 2 Printers (b&w & color) x2 Large work table Chairs x30, Copy machine Fax machine Scanner x2 Phone</p> <p>SOC 1.3.6.b.1 Tables & Chairs, x8 telephones x8</p> <p>SOC 1.3.6.c.1 Conference Table Chairs x12</p> <p>SOC 1.3.6.d.1 Faculty Office Furniture</p> <p>SOC 1.3.6.e.1 Workstations x6 Computers x6 Color printer B&W printer Scanner ETC</p> <p>SOC 1.3.6.f.1 Desks and Chairs x2</p>	<p>SOC 1.3.6.a.1.1 PDAs w/Snap 8 x25, VCR/DVD player-recorders x25 Canon GL2 cameras w/ accessories x3 Canon directional microphones x3,</p> <p>SOC 1.3.6.e.1.1 SPSS and Nvivo software</p>	

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			<p>PSY 1.3.6.a Focus Group Room (12) (for faculty research)</p>	<p>PSY 1.3.6.a.1 Large table & chairs x12</p> <p>PSY 1.3.6.b.1. Faculty-shared Research Space SBS B232. Desktop computers x3, Laser printer, Dry-erase boards x4,Cabinets x2, Display case</p> <p>PSY 1.3.6.c.1 Cognition Laboratory SBS B241 faculty) Desks, tables, & chairs, Computers x4, Internet access for soundproof chamber room</p> <p>PSY 1.3.6.d.1 Small Group Rms SBS B241 New tables & chair x8 Dry erase boards x8</p>		
			<p>PSY 1.3.6.e Expanded Advanced Psychology Computer Laboratory SBS A246. Remove hood, old laboratory benches, sinks</p>	<p>PSY 1.3.6.e.1 Expanded Advanced Psychology Computer Laboratory SBS A246. Tables and chairs for computer workstations</p>	<p>PSY 1.3.6.e.1.1 Advanced Psychology Computer Laboratory SBS A240 (student laboratory). New computers, printers, scanner, copier, bubble sheet s/w and scanner (w/computer);</p>	
					<p>PSY 1.3.6.f.1.1 Industrial size shredders X2 (Psych Office & Research space) Scan-Tron machine for grading & data transfer to PC</p>	<p>PSY 1.3.6.f.1.1.1 Photocopier w/ new high speed, multifunction machine Replace 2 smart carts including laptop w/DVD, project, and internet accessibility;</p>

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			<p>BIO 1.3.6.a New Faculty Research Laboratories x3</p> <p>BIO 1.3.6.b Developer Room, approximately 100 sq.ft.</p> <p>BIO 1.3.6.c Enhanced Greenhouse</p> <p>BIO 1.3.6.d Walk in environmentally controlled "cold room"</p> <p>BIO 1.3.6.e Dry Ice Storage Facility.</p> <p>BIO 1.3.6.f Tissue Culture Facility (NSM B134). Dual Function for teaching and research</p>	<p>BIO 1.3.6.a.1 Benches, stools and equipment</p> <p>BIO 1.3.6.b.1 Light sealed, running water and bench space</p> <p>BIO 1.3.6.c.1 Pad to level shade structure surface west of the greenhouse.</p> <p>BIO 1.3.6.d.1 Large enough to conduct experiments. Humidity and air flow adjustment capability</p>	<p>BIO 1.3.6.f.1.1 3-4 CO₂ incubators, fluorescence phase contrast and non-fluorescent inverted microscopes. Refrigerator, centrifuges and water bath. Cryogenic capability with 1 minute freezing system, liquid nitrogen tank and Dewar storage system</p>	

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			<p>BIO 1.3.6.g Dual Use Core Facility.</p> <p>BIO 1.3.6.h Renovate Animal Care Facility.</p> <p>BIO 1.3.6.i. NSM B154. Expand facility to combined research, advanced class & departmental conference room</p> <p>BIO 1.3.6.j Modernize and fully equip genetics, molecular biology, and cell biology labs.</p>	<p>BIO 1.3.6.h.1 Clean & paint basement & animal room. Equip animal room with cages, shelves</p> <p>BIO 1.3.6.i.1 Conference room/small group class tables x4. Conference chairs x16 ETC capability</p>	<p>BIO 1.3.6.g.1.1 Moderate speed centrifuges and ultracentrifuges, HPLC, capillary electrophoresis system. RT-PCR, luminometer and ELISA plate readers, micro-array scanner, cell sorter, Confocal microscope, DNA sequencer, protein synthesizer, reverse osmosis water purification systemBIO</p> <p>1.3.6.h.1.1 Supplies for Animal room and Surgical Room</p> <p>BIO 1.3.6.j.1.1 Modernize instructional equip with new pipetters, micro-pipettes, water baths & heat blocks. Buy licenses for analytic software, -200C and -800C freezers</p>	<p>BIO 1.3.6.k.1.1.1 Replace autoclaves.x2 Portable ECG machines x4 Replace electrophoresis power supply</p>

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			BEH 1.3.6.a Multipurpose room for Senior Seminar, Research Methods Course and Undergraduate Research (25)	BEH 1.3.6.a.1 Seminar style table with chairs x25. ETC capability. Computers x4 Printer Computer tables x4		
			EAR 1.3.6.a Wet lab - faculty research	EAR 1.3.6.a.1 Same size and layout as NSM B320, but with drawers included in the desk areas & industrial sink		
			EAR 1.3.6.b Storage Room for Supplies (9' x 11')	EAR 1.3.6.b.1 Storage shelves on one side EAR 1.3.6.c.1 Dedicated storage space in frequently used classrooms (NSM B252, NSM C221, NSM C217)		

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			<p>CHE 1.3.6.a Cold room.</p>	<p>CHE 1.3.6.a.1 -80°C and -20°C freezers, autoclave, cell culture hoods, centrifuge, shaker and cabinet for flammable substances</p> <p>CHE 1.3.6.b.1 Research furniture. Bench space for electrophoresis, incubator, shaker, chemicals and desktop centrifuges. Bench space to prepare buffers, shelves/ cabinets to store buffers and chemicals. 3 ton BTU AC unit for Theoretical Chemistry Lab.</p>	<p>CHE 1.3.6.b.1.1 Research Equipment. Water de-ionizing system, high pressure liquid chromatograph (HPLC)</p> <p>CHE 1.3.6.c.1.1 Teaching Equipment. FT-IR spectrometer, In-Focus Projector, gel documentation instrument,</p>	<p>CHE 1.3.6.d.1.1.1 C-13 NMR, refrigerator, freezer, digital ph meters, Fluorometers for calcium assay, Spec 20 spectrometers</p>
			<p>PHY 1.3.6.a Research lab space appropriate - new faculty members</p>	<p>PHY 1.3.6.1 Work tables, chairs, power, computer connections in keeping with new lab requirements</p>		

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			MAT 1.3.6.a 30x20 room; Math lab, classroom/seminar	MAT 1.3.6.a.1 Two screens x2 (Elmo & computer/AV) Square tables x8 w/ chairs x32 Chalkboards on all walls	MAT 1.3.6.a.1.1 Computers+VCR x3 Elmo	
			MAT 1.3.6.b 30x20 room; Math tutoring lab and study center	MAT 1.3.6.b.1 Small coffee tables x16, Chairs x 32 Bookshelves x8, Chalkboards on all walls		
			MAT 1.3.6.c Outdoor math study area	MAT 1.3.6.c.1 Two chalkboards x2, 4 Square tables w/ Benches x 4 Umbrellas x4,		

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	<p>BS 1.3.7) All NBS classrooms should be Enhanced Technology Classrooms with computer projector, internet hookup, etc. This should include training for faculty. (NBS SP 4.4)</p>	2009-2010	<p>NBS1.3.6.a Renovate all stockrooms & prep areas, cleaned up and painted</p>	<p>NBS 1.3.6.b.1 1 Gigabyte Ethernet backbone for NSM building</p> <p>NBS 1.3.6.c.1.1 Faculty Office computer upgrades for faculty offices (incl. part-time offices)</p>		<p>NBS 1.3.6.d.1.1.1 New office furniture for all faculty;</p> <p>NBS 1.3.6.e.1.1.1 New carpet, desks, chairs, cabinets and high speed copiers for departmental offices.</p> <p>NBS 1.3.6.f.1.1.1 Insure all classrooms have space for wheelchair-bound students</p> <p>NBS 1.3.6.g.1.1.1 wall clocks repaired</p> <p>NBS 1.3.6.h.1.1.1 Stronger wireless signal throughout SBS and NSM buildings</p> <p>NBS 1.3.6.i.1.1.1 Telephones, computer connections and sufficient electricity in all rooms and labs</p>
	<p>NBS 1.3.8) Provide student lounge space. Should have facilities, e.g. coffeemaker, that would encourage faculty to drop in, interact with students. (NBS SP4.5)</p>	2007-2008			<p>NBS 1.3.7.a.1.1 All classrooms and instructional laboratories ETC</p>	

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	NBS 1.3.10) Develop Urban Community Research Center and Center for Urban Environmental Research as key revenue generators providing funds for programs throughout the college. (NBS SP 6.1)	2007-2008	BEH, SOC, PSY 1.3.8.a Undergraduate Lounge BEH, SOC, PSY 1.3.8.b Graduate Lounge EAR, CHE, PHY, BIO, MAT, CSC 1.3.8.a Undergraduate Lounge EAR, CHE, PHY, BIO, MAT, CSC 1.3.8.a Graduate Lounge			