University of Central Florida

Office of the President

June 30, 2015

Mr. Tim Jones
Chief Financial Officer
Board of Governors
State University System of Florida
325 West Gaines Street, Suite 1614
Tallahassee, Florida 32399-0400

Dear Mr. Jones:

In accordance with your request dated May 8, 2015, to the Council of Presidents, enclosed is the University of Central Florida's Five-Year Fixed Capital Improvement Plan for the years 2016-21. This list revises UCF's primary priorities of previous years in accordance with the funding allocated by the Board of Governors, and it also includes additional facilities consistent with recent program developments and needs of the university. Use of existing space was considered in the prioritization of UCF's projects. We have increased the project cost within the three-year window due to the increase in the Board of Governors adjusted unit cost per gross square foot.

The UCF Five-Year Fixed Capital Improvement Plan was reviewed and approved by the University Board of Trustees on June 29, 2015.

Please ask members of your staff to contact Lee Kernek at (407) 823-3812 or Gina Seabrook at (407) 823-5894 if they have questions or need additional information.

Cordially yours,

John C. Hitt
President

Attachments

cc: Mrs. Lee Kernek
Mr. William F. Merck, II
Mr. William Martin
Mrs. Gina Seabrook

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Project Summary of Agency CIP
(CIP-2)

STATE UNIVERSITY SYSTEM
Five-Year Capital Improvement Plan (CIP-2) and Legislative Budget Request
Fiscal Years 2016-17 through 2021

University of Central Florida

PECO-ELIGIBLE PROJECT REQUESTS

Priority No	Project Title	2016-17 Year 1	2017-18 Year 2	2018-19 Year 3	2019-20 Year 4	2019-20 Year 5
1	UTILITIES, INFRASTRUCTURE, CAPITAL RENEWAL AND ROOFS (P,C)	$11,994,197	$14,000,000	$14,000,000	$14,000,000	$14,000,000
2	INTERDISCIPLINARY RESEARCH AND INCUBATOR FAC. (P,C,E)	$6,042,667	$34,529,519	$6,042,667		
3	COLBOURN HALL RENOVATION (P,C,E)	$1,952,455	$15,619,643	$1,952,455		
4	ENGINEERING BUILDING I RENOVATION (C,E)	$14,802,697	$981,240			
5	MATH SCIENCES BUILDING. REMODELING AND RENOVATION (C,E)	$9,994,969	$742,560			
6	TREVOR COLBOURN HALL (P,C,E)	$26,175,387				
7	JOHN C. HITT LIBRARY RENOVATION PHASE II (P,C,E)	$3,712,800	$31,293,600	$3,712,800		
8	UCF DOWNTOWN CAMPUS BUILDING I (P,C,E)	$57,750,000				
9	UCF DOWNTOWN CAMPUS BUILDING II (P,C,E)	$77,717,325				
10	ARTS COMPLEX PHASE II (PERFORMANCE) (P,C,E)	$5,993,328	$47,946,626	$5,993,328		
11	MILLICAN HALL RENOVATION (P,C,E)		$1,228,722	$9,829,776	$1,228,722	
12	BUSINESS ADMINISTRATION RENOVATION (P,C,E)		$524,036	$10,051,974	$524,036	
13	CHEMISTRY RENOVATION (P,C,E)		$572,665	$10,412,111	$572,665	
14	FACILITIES & SAFETY COMPLEX RENOVATION (P,C,E)			$5,349,632		
15	VISUAL ARTS RENOVATION AND EXPANSION (P,C,E)			$3,182,400	$25,459,200	$3,182,400
16	MULTI-PURPOSE RESEARCH AND EDUCATION BUILDING (P,C,E)			$2,948,164	$23,585,310	$2,948,164
17	COLLEGE OF NURSING (P,C,E)			$5,969,672	$47,757,376	$5,969,672
	TOTAL	**$216,135,825**	**$147,438,611**	**$79,444,979**	**$113,127,309**	**$26,100,236**

Academic or Other Programs to Benefit from Projects	Net Assignable Square Feet (NASF)	Gross Square Feet (GSF)	Project Cost	Project Cost Per GSF (Proj. Cost/ GSF)	Educational Plant Survey Recommended Date/Rec No.	Approved by Law - Include GAA reference
Total Campus	N/A		67994197	#DIV/0!	February-11	
Engrg-Arts Sciences	78676	118013	46614853	$ 395	February-11	
Clge Arts Sciences	73500	83957	19524553	$ 233		
Clge of Engineering	118186	130885	15783937	$ 121	February-11	HB 5001 Section 2
CAS-CHPA	100368	106523	10737529	$ 101	February-11	HB 5001 Section 2
CAS-CHPA	52550	78210	26175387	$ 335		
Total Campus	109560	150000	38719200	$ 258	February-11	
Clge Arts Sciences	112381	165000	57750000	$ 350		
Clge Arts Sciences	150325	222000	77717325	$ 350		
Total Campus	100396	150594	59933282	$ 398	February-11	
Total Campus	87730	87742	12287220	$ 140	February-11	
Clge of Business	119489	121074	11100046	$ 92	February-11	
Clge Arts Sciences	43265	49073	11557441	$ 95	February-11	
Total Campus	17400	26100	5349632	$ 205	February-11	
Clge Arts Sciences	79373	85000	31824000	$ 374	February-11	
Total Campus	47310	75384	29481638	$ 391	February-11	
Clge of Nursing	109560	161121	59696720	$ 371		

CITF PROJECT REQUESTS

Priority No	Project Title	Year 1	Year 2	Year 3	Year 4	Year 5
1	JOHN C. HITT LIBRARY RENOVATION PHASE I (P,C,E)	$13,688,709				
2	JOHN C. HITT LIBRARY RENOVATION PHASE II (P,C,E)		$38,719,200			
	TOTAL	**$13,688,709**	**$37,230,000**	**$0**	**$0**	**$0**

Academic or Other Programs to Benefit from Projects	Net Assignable Square Feet (NASF)	Gross Square Feet (GSF)	Project Cost	Project Cost Per GSF (Proj. Cost/ GSF)	Committee Approval Date
Total Campus	52627	59096	33001841	$ 558	05/16/12
Total Campus	261487	274837	38719200	$ 141	05/17/12

REQUESTS FROM OTHER STATE SOURCES

Priority No	Project	Year 1	Year 2	Year 3	Year 4	Year 5
18	PARTERSHIP IV (P,C,E)	$26,920,000	$6,120,000			
19	UCF DOWNTOWN CAMPUS BUILDING I (P,C,E)	$57,750,000				
20	UCF DOWNTOWN CAMPUS BUILDING II (P,C,E)	$77,717,325				
21	UCF DOWNTOWN CAMPUS COMBINED HEAT AND POWER PLANT (P,C,E)	$15,118,758				
22	INTERDISCIPLINARY RESEARCH AND INCUBATOR FACILTIY (P)	$3,000,000				
23	COLBOURN HALL RENOVATION (P,C,E)	$15,000,000				
24	TREVOR COLBOURN HALL (P,C,E)	$23,000,000				
25	CENTER FOR EMERGING MEDIA BUILD-OUT (P,C,E)	$6,747,048				
26	CAMPUS ENTRYWAYS	$4,590,000				
27	WELCOME CENTER EXPANSION (P,C,E)		$7,314,624			
28	CIVIL AND ENVIRONMENTAL ENGINEERING (P,C,E)		$1,231,236	$15,390,440	$1,846,853	
29	UCF DOWNTOWN CAMPUS BUILDING III (P,C,E)		$29,032,500			
30	HOWARD PHILLIPS HALL RENOVATION (P,C,E)		$7,645,414			
31	FERRELL COMMONS (E AND G SPACE) RENOVATION (P,C,E)		$6,050,860			
32	UCF DOWNTOWN CAMPUS BUILDING IV (P,C,E)			$42,164,850		
33	CLASSROOM BUILDING III (P,C,E)			$2,545,920	$20,367,360	$2,545,920
34	CLASSROOM AND LAB BUILDING, LAKE NONA (P,C,E)			$2,490,292	$19,922,333	$2,490,292
35	FACILITIES BUILDING AT LAKE NONA (P,C,E)			$6,364,800		
36	RECYCLING CENTER (P,C,E)			$2,439,840	$19,518,720	$2,439,840
37	HUMANITIES AND FINE ARTS II (P,C,E)			$2,940,912	$18,097,917	$2,940,912
38	SOCIAL SCIENCES FACILITY			$2,545,920	$20,367,360	$2,545,920

Academic or Other Programs to Benefit from Projects	Net Assignable Square Feet (NASF)	Gross Square Feet (GSF)	Project Cost	Project Cost Per GSF (Proj. Cost/ GSF)	
Clge H&PA	78294	100000	61,040,000	$ 610	HB 5001 2
Clge Arts Sciences	112381	165000	57,750,000	$ 350	
Clge Arts Sciences	150325	222000	77,717,325	$ 350	
Total Campus	13000	13000	15,118,758	$ 1,163	
Engrg-Arts Sciences	63119	93408	30,000,000	$ 321	
Clge Arts Sciences	73500	83957	15,000,000	$ 179	
CAS-CHPA	52550	78210	23,000,000	$ 294	
Total Campus	16000	21600	6,747,048	$ 312	
Total Campus	N/A	N/A	4,590,000	#DIV/0!	
Total Campus	11650	16210	7,314,624	$ 451	
Clge of Engr	33450	48,840	18,468,529	$ 378	
Clge Arts Sciences	51500	77050	29,032,500	$ 377	
Total Campus	56903	64619	7,645,414	$ 118	
Total Campus	19014	28520	6,050,860	$ 212	
CAS-CHPA	79360	109504	42,164,850	$ 385	
Total Campus	83657	65686	25,959,200	$ 395	
Clge Medicine	620976	91464	24,902,917	$ 272	
Total Campus	9416	23842	6,364,800	$ 267	
Total Campus	45175	57210	24,398,400	$ 426	CIP2
Clge Arts Sci	40724	61086	23,979,741	$ 393	
Clge of Sciences	44700	64650	25,459,200	$ 394	

39	UTILITY INFRASTRACTURE AND SITE WORK, LAKE NONA CLINICAL FACILITIES (P,C)			$10,608,000			Total Campus	N/A		10,608,000	#DIV/0!		
40	COASTAL BIOLOGY STATION			$5,304,000			Clge of Sciences	17544	26316	5,304,000	$	202	
41	UCF HEALTH EXPANSION (P,C,E)			$1,060,800	$8,486,400	$1,060,800	Clge of Medicine			10,608,000			
42	TECHNOLOGY COMMONS II RENOVATION (P,C.E)				$3,154,549		Total Campus	9372	10779	3,154,549	$	293	
43	COLLEGE OF SCIENCES BUILDING RENOVATION (P,C,E)				$3,413,078		Clge Arts Sciences	49580	54644	3,413,078	$	62	
44	SIMULATION AND TRAINING BUILDING (P,C,E)				$2,514,452	$19,529,725	Clge of Engr	52425	52431	24,558,629	$	468	
45	BUSINESS ADMIN. III BUILDING (P,C,E)				$1,680,866	$13,055,278	Clge of Business	27951	41032	16,417,010	$	400	
46	EDUCATION BUILDING II (P,C,E)				$2,187,739	$16,542,203	Clge Education	51479	77219	20,917,681	$	271	
47	BAND BUILDING (P,C,E)				$482,712	$2,970,536	Total Campus	9587	12714	3,935,960	$	310	
48	ARTS COMPLEX III (P,C,E)				$1,576,015	$12,608,120	Total Campus	27800	38421	15,760,150	$	410	
49	INTERDISCIPLINARY RESEARCH BUILDING II (P,C,E)				$2,637,120	$21,096,961	Engrg-Arts Sciences	38550	57825	25,734,081	$	445	
50	THEATER BUILDING RENOVATION (P, C,E)					$3,618,898	Clge Arts Sciences	22064	29469	3,618,898	$	123	
51	SUSTAINABILITY CENTER					$5,304,000	Total Campus	8400	12600	5,304,000	$	421	
	TOTAL	**$229,843,131**	**$57,394,634**	**$93,855,774**	**$126,253,474**	**$108,749,405**							

REQUESTS FROM NON-STATE SOURCES, INCLUDING DEBT

Project	Year 1	Year 2	Year 3	Year 4	Year 5	Academic or Other Programs to Benefit from Projects	Net Assignable Square Feet (NASF)	Gross Square Feet (GSF)	Project Cost	Project Cost Per GSF (Proj. Cost/ GSF)	Expected Source of Funding (if known)	Master Plan Approval Date
ROSEN STORAGE SHED (P,C,E)	$225,000					Clge Hospitality	838	896	225,000	$ 251	PRIVATE	November-14
ROSEN EDUCATIONAL FACILITY (P,C,E)	$17,000,000					Clge Hospitality	34666	52000	17,000,000	$ 327	PRIVATE	November-14
DISTRICT ENERGY IV PLANT (P,C,E)	$13,000,000					Total Campus	13000	13000	13,000,000	$ 1,000	PRIVATE	November-14
UCF DOWNTOWN CAMPUS BUILDING I (P,C,E)	$57,750,000					Total Campus	112381	165000	57,750,000	$ 350	PRIVATE	
UCF DOWNTOWN CAMPUS BUILDING II (P,C,E)	$77,717,325					Total Campus	150325	222000	77,717,325	$ 350	PRIVATE	
UCF DOWNTOWN CAMPUS COMBINED HEAT AND POWER PLANT (P,C,E)	$15,118,758					Total Campus	11000	13000	15,118,758	$ 1,163	PRIVATE	
INTERDISCIPLINARY RESEARCH AND INCUBATOR FACILTIY (P)	$27,000,000					Clge Arts Sciences	63119	93408	27,000,000	$ 289	AUXILIARY	November-14
INSTITUTE FOR HOSPITALITY IN HEALTHCARE AT LAKE NONA (P,C,E)	$15,300,000					Total Campus	24000	36000	15,300,000	$ 425	PRIVATE/GRANT	November-14
UCF DOWNTOWN CAMPUS GARAGE I (P,C,E)	$15,300,000					Total Campus	N/A	200000	15,300,000	$ 77	BONDS	
UCF DOWNTOWN CAMPUS GARAGE II (P,C,E)	$15,300,000					Total Campus	N/A	200000	15,300,000	$ 77	BONDS	
UCF DOWNTOWN CAMPUS HOUSING I (P,C,E)	$21,887,415					Total Campus		165000	21,887,415	$ 133	BONDS	
UCF DOWNTOWN CAMPUS HOUSING II (P,C,E)	$21,887,415					Total Campus		165000	21,887,415	$ 133	BONDS	
USTA AMERICAN TENNIS AT LAKE NONA -COLLEGIATE TENNIS (P,C,E)	$5,100,000					Total Campus			5,100,000	#DIV/0!	PRIVATE	
HOTEL AND CONFERENCE CENTER (P,C,E)	$76,500,000					Total Campus	N/A	200000	76,500,000	$ 383	PRIVATE	November-14
SPECIAL PURPOSE HOUSING AND PARKING GARAGE (P,C,E)	$25,500,000					Total Campus	N/A	168000	25,500,000	$ 152	BONDS	November-14
SPECIAL PURPOSE HOUSING II (P,C,E)	$8,160,000					Total Campus	42857	60000	8,160,000	$ 136	BONDS	November-14
PARKING DECKS (P,C,E)	$17,340,000					Total Campus	N/A	168000	17,340,000	$ 103	BONDS	November-14
GRADUATE HOUSING (P,C,E)	$51,000,000					Total Campus	107142	150000	51,000,000	$ 340	BONDS	November-14
REFINANCE UCF FOUNDATION PROPERTIES	$37,410,000					Total Campus	N/A	432250	37,410,000	$ 87	PRIVATE	November-14
STUDENT HOUSING (P,C,E)	$51,000,000					Total Campus	160000	224000	51,000,000	$ 228	BONDS	November-14
GARAGE EXPANSION (P,C, E)	$11,000,000					Total Campus	N/A	50837	11,000,000	$ 216	BONDS	November-14
REGIONAL CAMPUSES MULTI-PURPOSE BUILDINGS (P,C,E)	$28,560,000					Total Campus	133333	200000	28,560,000	$ 143	PRIVATE	November-14
PARTNERSHIP GARAGE (P,C,E)	$7,140,000					Total Campus	N/A	60000	7,140,000	$ 119	BONDS	November-14
PARKING DECK (ATHLETIC COMPLEX)	$5,100,000					Total Campus	N/A	168000	5,100,000	$ 30	BONDS	November-14
BASEBALL STADIUM EXPANSION PHASE II (P,C,E)	$2,550,000					Total Campus	N/A	5700	2,550,000	$ 447	PRIVATE	November-14
BASEBALL CLUBHOUSE EXPANSION AND RENOVATION	$1,020,000					Total Campus	5000	7000	1,020,000	$ 146	PRIVATE	November-14
BRIGHT HOUSE NETWORKS STADIUM EXPANSION ROTH TOWER PHASE I (P,C,E)	$11,220,000					Total Campus	15240	21337	11,220,000	$ 526	PRIVATE	November-14
TENNIS CENTER (P,C,E)	$1,530,000					Total Campus	6225	7470	1,530,000	$ 205	PRIVATE	November-14
MULTI-PURPOSE MEDICAL RESEARCH AND INCUBATOR FACILITY (P,C,E)	$115,121,201					Clge of Medicine	132018	198027	115,121,201	$ 581	PRIVATE	November-14
HEALTH SCIENCES CAMPUS PARKING GARAGE I (P,C,E)	$15,300,000					Total Campus		402000	15,300,000	$ 38	BONDS	November-14
BIO-MEDICAL ANNEX RENOVATION AND EXPANSION (P,C,E)	$13,056,000					Clge of Arts & Scienc	21333	32000	13,056,000	$ 408	PRIVATE	November-14
OUTPATIENT CENTER (P,C,E)	$76,500,000					Total Campus	78833	119750	76,500,000	$ 626	PRIVATE	November-14
CAMPUS ENTRYWAYS	$4,590,000					Total Campus	N/A	N/A	4,590,000	#DIV/0!	AUXILIARY	November-14
UCF DOWNTOWN CAMPUS BUILDING III (P,C,E)		$29,032,500				Clge Arts Sciences	79360	109504	29,032,500	$ 265	PRIVATE	
CIVIL AND ENVIRONMENTAL ENGINEERING (P,C,E)		$1,231,236	$15,390,440	$1,846,853		Clge of Engr	51500	77050	18,468,529	$ 240	AUXILIARY	November-14
DENTAL SCHOOL (P,C,E)		$73,000,000				Total Campus	111166	166750	73,000,000	$ 438	PRIVATE	November-14
UCF DOWNTOWN CAMPUS BUILDING IV (P,C,E)			$42,164,850			Total Campus	79360	109504	42,164,850	$ 385		November-14
FACILITIES BUILDING, LAKE NONA (P,C,E)			$6,364,800			Total Campus	21053	31579	6,364,800	$ 202	BONDS	November-14
CLASSROOM AND LAB BUILDING, LAKE NONA (P,C,E)			$2,490,292	$19,922,333	$2,490,292	Clge Medicine	620976	91464	24,902,917	$ 272	PRIVATE	November-14
PARKING GARAGE VII (P,C,E)			$21,216,000			Total Campus	N/a	447000	21,216,000	$ 47	BONDS	November-14
UTILITY INFRASTRACTURE AND SITE WORK, LAKE NONA CLINICAL FACILITIES (P,C)			$10,608,000			Total Campus	N/A	N/A	10,608,000	#DIV/0!	PRIVATE	November-14
COASTAL BIOLOGY STATION			$5,304,000			Clge of Sciences	16544	23161	5,304,000		PRIVATE	November-14
UCF HEALTH EXPANSION (P,C,E)			$1,060,800	$8,486,400	$1,060,800	Total Campus	13333	20000	10,608,000	$ 530	PRIVATE	November-14
SUSTAINABILITY CENTER (P,C,E)				$5,304,000		Total Campus	17544	26316	5,304,000	$ 202	PRIVATE	November-14
TOTAL	**$862,183,114**	**$103,263,736**	**$104,599,182**	**$35,559,586**	**$3,551,092**							

Summary Narrative for Agency Projects

UNIVERSITY OF CENTRAL FLORIDA FUTURE PROJECT PROJECTIONS FOR 2016-21
2016 FIVE-YEAR FIXED CAPITAL IMPROVEMENTS PLAN

PECO PROJECTS REVISED 06/25/2015	2016-17 YR #1	2017-18 YR #2	2018-19 YR #3	2019-20 YR #4	2020-21 YR #5	TOTALS	RANK
UTILITIES, INFRASTRUCTURE, CAPITAL RENEWAL, AND ROOFS (P,C)	$11,994,197	$14,000,000	$14,000,000	$14,000,000	$14,000,000	$67,994,197	1
INTERDISCIPLINARY RESEARCH AND INCUBATOR FACILTIY (P,C,E)	$6,042,667	$34,529,519	$6,042,667			$46,614,853	2
COLBOURN HALL RENOVATION (P,C,E)	$1,952,455	$15,619,643	$1,952,455			$19,524,553	3
ENGINEERING BUILDING I RENOVATION (C,E)	$14,802,697	$981,240				$15,783,937	4
MATHEMATICAL SCIENCES BUILDING REMODELING AND RENOVATION (C,E)	$9,994,969	$742,560				$10,737,529	5
TREVOR COLBOURN HALL (P,C,E)	$26,175,387					$26,175,387	6
JOHN C. HITT LIBRARY RENOVATION PHASE II (P,C,E)	$3,712,800	$31,293,600	$3,712,800			$38,719,200	7
UCF DOWNTOWN CAMPUS BUILDING I (P,C,E)	$57,750,000					$57,750,000	8
UCF DOWNTOWN CAMPUS BUILDING II (P,C,E)	$77,717,325					$77,717,325	9
ARTS COMPLEX PHASE II (PERFORMANCE) (P,C,E)	$5,993,328	$47,946,626	$5,993,328			$59,933,282	10
MILLICAN HALL RENOVATION (P,C,E)		$1,228,722	$9,829,776	$1,228,722		$12,287,220	11
BUSINESS ADMINISTRATION RENOVATION (P,C,E)		$524,036	$10,051,974	$524,036		$11,100,046	12
CHEMISTRY RENOVATION (P,C,E)		$572,665	$10,412,111	$572,665		$11,557,441	13
FACILITIES & SAFETY COMPLEX RENOVATION (P,C,E)			$5,349,632			$5,349,632	14
VISUAL ARTS RENOVATION AND EXPANSION (P,C,E)			$3,182,400	$25,459,200	$3,182,400	$31,824,000	15
MULTI-PURPOSE RESEARCH AND EDUCATION BUILDING (P,C,E)			$2,948,164	$23,585,310	$2,948,164	$29,481,638	16
COLLEGE OF NURSING (P,C,E)			$5,969,672	$47,757,376	$5,969,672	$59,696,720	17
TOTAL	**$216,135,825**	**$147,438,611**	**$79,444,979**	**$113,127,309**	**$26,100,236**	**$582,246,960**	

CITF PROJECT REQUESTS	2016-17 YR #1	2017-18 YR #2	2018-19 YR #3	2019-20 YR #4	2020-21 YR #5	TOTALS	RANK
JOHN C. HITT LIBRARY RENOVATION PHASE I (C,E)	$13,688,709					$13,688,709	1
JOHN C. HITT LIBRARY RENOVATION PHASE II (P,C,E)		$38,719,200				$38,719,200	2
TOTAL	**$13,688,709**	**$38,719,200**	**$0**	**$0**	**$0**	**$52,407,909**	

REQUESTS FROM OTHER STATE SOURCES	2016-17 YR #1	2017-18 YR #2	2018-19 YR #3	2019-20 YR #4	2020-21 YR #5	TOTALS	RANK
PARTNERSHIP IV (C,E)	$26,920,000	$6,120,000				$33,040,000	1
UCF DOWNTOWN CAMPUS BUILDING I (P,C,E)	$57,750,000					$57,750,000	2
UCF DOWNTOWN CAMPUS BUILDING II (P,C,E)	$77,717,325					$77,717,325	3
UCF DOWNTOWN CAMPUS COMBINED HEAT AND POWER PLANT (P,C,E)	$15,118,758					$15,118,758	4
INTERDISCIPLINARY RESEARCH AND INCUBATOR FACILTIY (P,C,E)	$3,000,000					$3,000,000	5
COLBOURN HALL RENOVATION (P,C,E)	$15,000,000					$15,000,000	6
TREVOR COLBOURN HALL (P,C,E)	$23,000,000					$23,000,000	7
CENTER FOR EMERGING MEDIA BUILD-OUT (P,C,E)	$6,747,048					$6,747,048	8
CAMPUS ENTRYWAYS	$4,590,000					$4,590,000	9
WELCOME CENTER EXPANSION (P,C,E)		$7,314,624				$7,314,624	10
CIVIL AND ENVIRONMENTAL ENGINEERING (P,C,E)		$1,231,236	$15,390,440	$1,846,853		$18,468,529	11
UCF DOWNTOWN CAMPUS BUILDING III (P,C,E)		$29,032,500				$29,032,500	12
HOWARD PHILLIPS HALL RENOVATION (P,C,E)		$7,645,414				$7,645,414	13
FERRELL COMMONS (E AND G SPACE) RENOVATION (P,C,E)		$6,050,860				$6,050,860	14
UCF DOWNTOWN CAMPUS BUILDING IV (P,C,E)			$42,164,850			$42,164,850	15
CLASSROOM BUILDING III (P,C,E)			$2,545,920	$20,367,360	$2,545,920	$25,459,200	16
CLASSROOM AND LAB BUILDING, LAKE NONA (P,C,E)			$2,490,292	$19,922,333	$2,490,292	$24,902,917	17
FACILITIES BUILDING AT LAKE NONA (P,C,E)			$6,364,800			$6,364,800	18
RECYCLING CENTER (P,C)			$2,439,840	$19,518,720	$2,439,840	$24,398,400	19

HUMANITIES AND FINE ARTS II (P,C,E)			$2,940,912	$18,097,917	$2,940,912	$23,979,741	20
SOCIAL SCIENCES FACILITY			$2,545,920	$20,367,360	$2,545,920	$25,459,200	21
UTILITY INFRASTRUCTURE AND SITE WORK LAKE NONA CLINICAL FACILITIES (P,C)			$10,608,000			$10,608,000	22
COASTAL BIOLOGY STATION			$5,304,000			$5,304,000	23
UCF HEALTH EXPANSION (P,C,E)			$1,060,800	$8,486,400	$1,060,800	$10,608,000	24
TECHNOLOGY COMMONS II RENOVATION (P,C,E)				$3,154,549		$3,154,549	25
COLLEGE OF SCIENCES BUILDING RENOVATION (P,C,E)				$3,413,078		$3,413,078	26
SIMULATION AND TRAINING BUILDING (P,C,E)				$2,514,452	$19,529,725	$22,044,177	27
BUSINESS ADMINISTRATION III BUILDING (P,C,E)				$1,680,866	$13,055,278	$14,736,144	28
EDUCATION BUILDING II (P,C,E)				$2,187,739	$16,542,203	$18,729,942	29
BAND BUILDING (P,C,E)				$482,712	$2,970,536	$3,453,248	30
ARTS COMPLEX III (P,C,E)				$1,576,015	$12,608,120	$14,184,135	31
INTERDISCIPLINARY RESEARCH BUILDING II (P,C,E)				$2,637,120	$21,096,961	$23,734,081	32
THEATER BUILDING RENOVATION (P, C,E)					$3,618,898	$3,618,898	33
SUSTAINABILITY CENTER (P,C,E)					$5,304,000	$5,304,000	34
TOTAL	$229,843,131	$57,394,634	$93,855,774	$126,253,474	$108,749,405	$616,096,418	

REQUESTS FROM NON-STATE SOURCES, INCLUDING DEBT	2016-17 YR #1	2017-18 YR #2	2018-19 YR #3	2019-20 YR #4	2020-21 YR #5	TOTALS	RANK
ROSEN STORAGE SHED (P,C,E)	$225,000					$225,000	
ROSEN EDUCATIONAL FACILITY (P,C,E)	$17,000,000					$17,000,000	
DISTRICT ENERGY IV PLANT (P,C,E)	$13,000,000					$13,000,000	
UCF DOWNTOWN CAMPUS BUILDING I (P,C,E)	$57,750,000					$57,750,000	
UCF DOWNTOWN CAMPUS BUILDING II (P,C,E)	$77,717,325					$77,717,325	
UCF DOWNTOWN CAMPUS COMBINED HEAT AND POWER PLANT (P,C,E)	$15,118,758					$15,118,758	
INTERDISCIPLINARY RESEARCH AND INCUBATOR FACILTIY (P,C,E)	$27,000,000					$27,000,000	
INSTITUTE FOR HOSPITALITY IN HEALTHCARE AT LAKE NONA (P,C,E)	$15,300,000					$15,300,000	
UCF DOWNTOWN CAMPUS GARAGE I (P,C,E)	$15,300,000					$15,300,000	
UCF DOWNTOWN CAMPUS GARAGE II (P,C,E)	$15,300,000					$15,300,000	
UCF DOWNTOWN CAMPUS HOUSING I (P,C,E)	$21,887,415					$21,887,415	
UCF DOWNTOWN CAMPUS HOUSING II (P,C,E)	$21,887,415					$21,887,415	
USTA AMERICAN TENNIS AT LAKE NONA - COLLEGIATE TENNIS (P,C,E)	$5,100,000					$5,100,000	
HOTEL AND CONFERENCE CENTER (P,C,E)	$76,500,000					$76,500,000	
SPECIAL PURPOSE HOUSING AND PARKING GARAGE (P,C,E)	$25,500,000					$25,500,000	
SPECIAL PURPOSE HOUSING II (P,C,E)	$8,160,000					$8,160,000	
PARKING DECKS (P,C,E)	$17,340,000					$17,340,000	
GRADUATE HOUSING (P,C,E)	$51,000,000					$51,000,000	
REFINANCE UCF FOUNDATION PROPERTIES	$37,410,000					$37,410,000	
STUDENT HOUSING (P,C,E)	$51,000,000					$51,000,000	
GARAGE EXPANSION (P,C,E)	$11,000,000					$11,000,000	
REGIONAL CAMPUSES MULTI-PURPOSE BUILDINGS (P,C,E)	$28,560,000					$28,560,000	
PARTNERSHIP GARAGE (P,C,E)	$7,140,000					$7,140,000	
PARKING DECK (ATHLETIC COMPLEX)	$5,100,000					$5,100,000	
BASEBALL STADIUM EXPANSION PHASE II (P,C,E)	$2,550,000					$2,550,000	
BASEBALL CLUBHOUSE EXPANSION AND RENOVATION	$1,020,000					$1,020,000	
BRIGHT HOUSE NETWORKS STADIUM EXPANSION ROTH TOWER PHASE I (P,C,E)	$11,220,000					$11,220,000	
TENNIS CENTER (P,C,E)	$1,530,000					$1,530,000	
MULTI-PURPOSE MEDICAL RESEARCH AND INCUBATOR FACILITY)P,C,E)	$115,121,201					$115,121,201	
HEALTH SCIENCES CAMPUS PARKING GARAGE I (P,C,E)	$15,300,000					$15,300,000	
BIO-MEDICAL ANNEX RENOVATION AND EXPANSION (P,C,E)	$13,056,000					$13,056,000	

OUTPATIENT CENTER (P,C,E)	$76,500,000					$76,500,000	
CAMPUS ENTRY WAYS	$4,590,000					$4,590,000	
UCF DOWNTOWN CAMPUS PHASE III (P,C,E)		$29,032,500				$29,032,500	
CIVIL AND ENVIRONMENTAL ENGINEERING (P,C,E)		$1,231,236	$15,390,440	$1,846,853		$18,468,529	
DENTAL SCHOOL (P,C,E)		$73,000,000				$73,000,000	
UCF DOWNTOWN CAMPUS PHASE IV (P,C,E)			$42,164,850			$42,164,850	
FACILITIES BUILDING, LAKE NONA (P,C,E)			$6,364,800			$6,364,800	
CLASSROOM AND LAB BUILDING, LAKE NONA (P,C,E)			$2,490,292	$19,922,333	$2,490,292	$24,902,917	
PARKING GARAGE VII (P,C,E)			$21,216,000			$21,216,000	
UTILITY INFRASTRUCTURE AND SITE WORK LAKE NONA CLINICAL FACILITIES (P,C)			$10,608,000			$10,608,000	
COASTAL BIOLOGY STATION (P,C,E)			$5,304,000			$5,304,000	
UCF HEALTH EXPANSION (P,C,E)			$1,060,800	$8,486,400	$1,060,800	$10,608,000	
SUSTAINABILITY CENTER (P,C,E)				$5,304,000		$5,304,000	
TOTAL	**$862,183,114**	**$103,263,736**	**$104,599,182**	**$35,559,586**	**$3,551,092**	**$1,109,156,710**	
GRAND TOTAL	**$1,321,850,779**	**$346,816,181**	**$277,899,935**	**$274,940,369**	**$138,400,733**	**$2,359,907,997**	

Projects to be programmed

Projects with approved building programs

Project may be a Joint Use Facility with Valencia College, which would result in shared funding

Remodeling denotes **change** in space usage.

Renovation denotes **no change in** space usage.

CIP-3
PROJECT EXPLANATION
(Expansion and Remodeling Projects)

Short-Term Plan: 2016 – 2021
(CIP-3)

AGENCY University of Central Florida
BUDGET ENTITY SUS
PROJECT TITLE Utilities Infrastructure

AGENCY PRIORITY 1
DATE BLDG PROGRAM APPROVED

PURPOSE, NEED, SCOPE, RELATIONSHIP OF PROJECT TO AGENCY OBJECTIVES

UCF strives to be a good steward of state funds, and as such has historically had the challenge of balancing the maintenance and operations of its buildings with the need to repair, replace and upgrade its utilities and infrastructure. In the recent past, when faced with years of legislative budget cuts and reduced funding, UCF placed its highest priority on repairs and projects related to life safety and the Americans with Disabilities Act (ADA). Consequently, a multitude of other maintenance issues were necessarily deferred, creating a backlog of utilities, infrastructure, plant modernization, capital renewal, and roofing needs.

The university maintains and operates over 42,000 linear feet of commodity networks of utility distribution and collection infrastructure, covering over 1400 acres on the main campus. These utility distribution and collection systems include natural gas, electric, renewable energy sites, chilled water, transportation of effluent, and domestic water. Approximately 70 percent of the main campus is served by three centrally-located district cooling plants, averaging 27.2 years old, with the main central energy plant turning 50 in 2019. Centrally-located plants reduce building energy consumption and eliminate less-efficient standalone cooling at each building.

On-campus energy demands for electricity, potable water, natural gas and chilled water are increasing. The 2015 Campus Master Plan identifies future campus development, associated energy and peak utility demands, and the supply-related facilities needed to adequately provide these services to future campus populations. Major infrastructure distribution constraints and considerations (many of which revolve around complex global and national energy issues) arise when determining the outcomes, consequences, and tradeoffs of UCF's future energy demands. UCF has identified our demand and supply drivers to help forecast electricity (including purchased power), cooling, and heating and reheating (as a result of onsite natural gas need) for future campus growth.

Campus infrastructure requires upgrading, and the university collaborates with external utility providers to proactively identify and replace utility infrastructure distribution equipment leased to the university. Upgrades and replacements for tele-communications duct banks and electronics, roadways, sidewalks, exterior lighting, and irrigation systems are also addressed. Utility modernization will address both critical and non-critical issues to provide reliable distribution. The potable water distribution plant is outdated and requires replacement of distribution piping and isolation valves. The sewage distribution system was updated 10 years ago by installing a master lift station, and now requires many new mechanical floats, probes and SCADA updates. Secondary lift stations require upgrading to install secondary power for emergency backup and replacement of distribution piping throughout campus, because some piping has been in the ground for over 40 years. Deferred maintenance throughout the campus has been verified by ISES Corp., a third-party Facility Condition Assessment (FCA) company. These deferred maintenance projects include modernization of building systems, upgrades to lighting systems, building automation, ADA

compliance, building envelope repairs, interior finishes, flooring, egress, exterior lighting and utility service entrance upgrades. Information technology upgrades are also required in order to meet current and future requirements.

UCF uses 600 utility submeters to collect data for monitoring, billing, energy management, and cost recovery. Analyzed data provides an understanding of diversified peaks that include load factor, annual electricity, cooling units consumed, and natural gas consumed and normalized, as well as current load duration curves. The data is also used to approach new construction and facility improvement projects with a focus on reducing water and energy consumption to help curb infrastructure and distribution demands. Within UCF's green building design, technologies are selected based on historical and current data analysis, industry best practices, and a comparison of the cost and benefits associated with the environmental impact.

Further delay in funding utilities infrastructure and deferring maintenance will result in unpredictable mechanical and utility failures, causing operations to respond in a more costly, reactive versus proactive way.

Deferred maintenance dramatically reduces the normal expected life cycle of materials, systems, and buildings, thus increasing operational costs in the long run. As the university continues to grow and construct facilities, an organized, systematic approach to scheduling and funding deferred maintenance is essential to protect university assets for future generations.

SUSTAINABILITY AND LEED

The University of Central Florida is committed to sustainability and continued reduction of energy consumption in new construction projects. As energy costs and demands continue to escalate, achieving higher levels of efficiency has become increasingly important to the university's mission. Since 2007, UCF has mandated LEED certification, with most projects achieving Gold. UCF requires specific individual LEED credits that contribute to UCF's core principles including energy efficiency, water conservation, and indoor air quality for all projects. The Department of Utilities & Energy Services provides oversight for all new construction and major renovation projects, and expedites the commissioning process with the latest industry standards to ensure that the university's sustainability goals are met and design parameters achieved.

EDUCATIONAL PLANT SURVEY

The Educational Plant Survey was conducted and approved in February 2011. See recommendation No. 1.2, Utilities Infrastructure Improvements.

Department of Utilities & Energy Services provides oversight for all new construction and major renovation projects, and expedites the commissioning process with the latest industry standards to ensure that the university's sustainability goals are met and design parameters achieved.

Classroom/Office

The space classification is predominately classroom or office type, with laboratory or research type minimized. The project will achieve Gold LEED certification from the U.S. Green Building Council (USGBC). Energy consumption will be at least 30% less than the energy standards cited in ASHRAE 90.1-2007, and water consumption will be at least 30% less than that of a comparable building. The project will utilize the district cooling loop for space cooling needs and look at alternative measures to provide dehumidification with the classifications of classroom and offices and related energy use. All heating and reheating will be hydronic.

Research/Laboratory

Despite the fact that this building's space classification is predominantly classroom and office, there are a significant number of research and teaching laboratories in the building. Laboratories should have continuous variable air flow valves with air flow reset capabilities. Domestic and laboratory hot water needs shall be provided primarily by solar thermal energy.

EDUCATIONAL PLANT SURVEY

The Educational Plant Survey was conducted and approved in February, 2011. See recommendation No. 2.6, Chemistry Building Renovation.

AGENCY University of Central Florida
BUDGET ENTITY SUS
PROJECT TITLE Interdisciplinary Research and Incubator Facility

AGENCY PRIORITY 2 / 22
DATE BLDG PROGRAM

APPROVED

PURPOSE, NEED, SCOPE, RELATIONSHIP OF PROJECT TO AGENCY OBJECTIVES

UCF has a critical need for research space to accelerate scientific discovery in a collaborative environment, increase research funding, support Science, Technology, Engineering and Math (STEM) and increase the number of STEM graduates, and produce high-paying jobs to help drive Florida's economy. UCF is severely hampered in research activities by the lack of adequate research space. To date, the state has provided 407,000 net assignable square feet, half the space needed as calculated by the state's formula. Programs to be located in the Interdisciplinary Research and Incubator Facility (IRIF) currently produce $26 million in external funding. Subsequent funding should increase dramatically with this new space. The dollar value of the project to the local economy will be $10.8 million in the first year, $61.7 million in the second year, and $10.8 million recurring in the third year and beyond, as estimated by the UCF Institute for Economic Competitiveness. Three hundred fifty construction jobs and eighty-three permanent jobs will be created.

Crosscutting research is a critical component in addressing many of the issues facing today's new economy. Traditional academic boundaries inherently slow the creative process necessary to solve today's complex issues in research and delay technology transfer and commercial exploitation. Interdisciplinary research has led the way in the discovery and creation of new disruptive technologies that have fueled economic growth and prosperity in the US. Florida is building a strong base of faculty with a broad base of technological expertise in key areas of science and technology. The ability to leverage the talents of faculty from various disciplines creates synergies, value, and opportunities well beyond the sum of the individual parts.

The IRIF represents the core of UCF's STEM programs. Four main research groups have been identified to occupy the IRIF: the Nano Science Technology Center (NSTC); Advanced Materials Processing and Analysis Center (AMPAC); the Center for Research in Education in Optics and Lasers (CREOL); and the Florida Solar Energy Center (FSEC). All of these centers are highly multidisciplinary, recognizing that dividing lines between various traditional disciplines are blurring and new disciplines are emerging, leading to more rapid innovation. The best way to spur this new paradigm is to provide interdisciplinary research facilities like the IRIF, where the various disciplines are housed together to create a new climate of interaction and collaboration. This facility will enable the university to cost-effectively share capital and equipment investments, enhance researcher collaboration, and reduce the time to move discoveries to commercial markets.

UCF has developed a number of highly successful partnerships, research centers, and a nationally ranked technology incubator, which have resulted in expansion into the adjacent Central Florida Research Park. This growth has enabled research centers to develop in their own right. However, that physical growth has been "ad-hoc" in leased, off-campus dislocated facilities, which inhibits

the fulfillment of the centers' potential. Further, the separation of on and off-campus facilities has created limitations for crossing disciplines. By developing a research facility on the main campus that will focus on multiple disciplines, energy research will be enhanced, and the environment within the IRIF will create collaborations.

The IRF will also support the UCF business incubator program, which has graduated over 100 companies, with salaries nearing $70,000 per year. UCF is recognized internationally for our ability to successfully incubate new companies. The facility will provide space for community entrepreneurs to launch new ventures based on innovations related to the research efforts at the university. The incubator program has been a proven pathway to success for companies spun out of UCF facilities. High-tech job creation in our region and state will expand with space for more incubator programs.

Basic and applied research by our faculty is the bedrock for the spinoff of new products to the commercial sector and the spinoff of new companies. The most impactful research advances usually involve multidisciplinary teams of researchers. This facility enables such multidisciplinary projects and advances, and positions UCF to compete for larger research projects, which in turn will generate jobs in our community and state. UCF is making great strides in implementing the cycle described herein; however, further quality research is severely limited by our desperate need for additional research space.

This facility will provide the infrastructure, atmosphere, and culture necessary to build strong interdisciplinary teams and programs in research, technology transfer, and commercialization. The IRIF will provide facilities and laboratories for multi-scale materials research and development related to innovative and efficient energy production, storage, and utilization. The facility will enable fundamental and applied interdisciplinary research, create a bridge between technology development and technology transfer and commercialization, and enable UCF to become an integral partner in economic development activities in the region and state.

As a metropolitan university serving the needs of Central Florida, the addition of this building and its associated research activities will advance the university's goals of:

Offering the best undergraduate education available in Florida;
Achieving international prominence in key programs of graduate study and research;
Providing international focus to our curricula and research programs;
Becoming more inclusive and diverse; and
Being America's leading partnership university.

The building will provide researchers with laboratory space conducive for interaction, collaboration and professional development. The IRIF will promote multidisciplinary research by placing faculty, research scientists/postdocs, and students in the same building where they will interact on a daily basis, learn each other's "language," and build collaborations. Co-location with the facility will dramatically increase research efficiency, and potentially cut years off the time required to produce new technology.

Research labs are essential for STEM-centered research and for thesis and dissertation work by students in disciplines with active graduate programs, especially at the doctoral level. Many cases exist on campus where the same lab is used both for graduate coursework, thesis and/or dissertation work, and faculty research. Core graduate student academic work in STEM areas focuses on thesis and/or dissertation that is, in fact, mostly faculty-led research activities.

Space utilization exceeds the current statutory requirement of 60% student stations occupied at a minimum of 40 hours per week, and research labs are operating "at or above capacity." Based on the 2011 educational plant survey analysis for space needs, the university has a shortfall of research labs, especially wet labs and teaching labs, and requires this new building to meet the current and growing demands of the university. Making full use of regular academic buildings, which in some cases includes utilization of spaces designed originally for other purposes (laboratories, theaters, library study areas, etc.), the university has been forced over the past several years to rent temporary facilities both on and off campus for research.

Delayed funding of this facility would have many negative consequences. Research will be impacted as space is critical; research faculty lines cannot be filled as there is no available research space to accommodate the additional faculty; current faculty are falling behind in progress on current contracts due to inadequate space; and UCF's ability to increase its output of STEM graduates is affected.

Past experience has shown that quality research facilities generate $400 to $500 per square foot per year in external funding, and each $1,000,000 of additional research funding produces about one additional patent per year.

SUSTAINABILITY AND LEED

The University of Central Florida is committed to sustainability and continued reduction of energy consumption in new construction projects. As energy costs and demands continue to escalate, achieving higher levels of efficiency has become increasingly important to the university's mission. Since 2007, UCF has mandated LEED certification, with most projects achieving Gold. UCF requires specific individual LEED credits that contribute to UCF's core principles including energy efficiency, water conservation, and indoor air quality for all projects. The Department of Utilities & Energy Services provides oversight for all new construction and major renovation projects, and expedites the commissioning process with the latest industry standards to ensure that the university's sustainability goals are met and design parameters achieved.

Research/Laboratory

The space classification is predominately laboratory type, with office type minimized. The project will achieve LEED Gold certification with the U.S. Green Building Council (USGBC). Energy consumption will be at least 30% less than the energy standards cited in ASHRAE 90.1-2007, and water consumption will be at least 30% less than that of a comparable building. Laboratories will have continuous variable air flow valves with air flow reset capabilities. Domestic and

laboratory hot water needs shall be provided primarily by solar thermal energy. The project will utilize the district cooling loop for space cooling needs and will look at alternative measures to provide dehumidification with the classifications of lab spaces and related energy use, and all heating and reheating will be hydronic.

EDUCATIONAL PLANT SURVEY

The Educational Plant Survey was conducted and approved in February, 2011. See recommendation No. 3.1, Interdisciplinary Research and Incubator Facility.

STATE UNIVERSITY SYSTEM
CIP-3 SHORT TERM PROJECT EXPLANATION

GEOGRAPHIC LOCATION: University of Central Florida, Orlando
COUNTY: Orange
PROJECT DESCRIPTION/TITLE: Interdisciplinary Research and Inc. Fac.
PROJECT BR No. (if assigned):

Facility/Space Type	Net Area (NASF)	Net to Gross Conversion	Gross Area (GSF)	Unit Cost (Cost/GSF)*	Construction Cost	Assumed Bid Date	Occupancy Date
Classrooms		1.5	0	274	0		
Teaching Labs		1.5	0	268	0		
Research Labs	36,355	1.5	54,533	375	20,449,688		
Study		1.4	0	286	0		
Instructional Media		1.5	0	215	0		
Auditorium/Exhibition		1.2	0	310	0		
Gymnasiums		1.2	0	225	0		
Offices	14,059	1.5	21,089	284	5,989,134		
Campus Support Serv	12,705	1.4	17,787	276	4,909,212		
Totals	63,119		93,408		31,348,034		

*Apply Unit Cost to total GSF based on primary space type

Space Detail for Remodeling Projects

BEFORE		AFTER	
Space Type	Net Area (NASF)	Space Type	Net Area (NASF)

Remodeling/Renovation

Total Construction - New & Rem./Renov. 31,348,034 Total 0 Total 0

SCHEDULE OF PROJECT COMPONENTS — ESTIMATED COSTS

Basic Construction Cost	Funded to Date	2016-17	2017-18	2018-19	2019-2020	2019-2020	Funded & In CIP
1. a.Construction Cost (from above)	-						-
Add'l/Extraordinary Const. Costs							-
b.Environmental Impacts/Mitigation							-
c.Site Preparation							-
d.Landscape/Irrigaiton							-
e.Plaza/Walks							-
f.Roadway Improvements							-
g.Parking ___ spaces							-
h.Telecommunication							-
i.Electrical Service							-
j.Water Distribution							-
k.Sanitary Sewer System							-
l.Chilled Water System							-
m.Storm Water System							-
n.Energy Efficient Equipment							-
Total Construction Costs	0	0	0	0	0	0	0
2. Other Project Costs							
a.Land/existing facility acquisition							-
b.Professional Fees		1,953,283					1,953,283
c.Fire Marshall Fees		91,402					91,402
d.Inspection Services		600,535					600,535
e.Insurance Consultant		19,765					19,765
f.Surveys & Tests		85,015					85,015
g.Permit/Impact/Environmental Fees		250,000					250,000
h.Artwork							-
i.Moveable Furnishings & Equipment							-
j.Project Contingency							-
Total - Other Project Costs	-	3,000,000	-	-	-	0	3,000,000
ALL COSTS 1+2	0	3,000,000	0	0	0	0	3,000,000

Appropriations to Date Source	Fiscal Year	Amount	Project Costs Beyond CIP Period Source	Fiscal Year	Amount	Total Project In CIP & Beyond
PECO	2015-2016	6,042,667				3,000,000
TOTAL		-	TOTAL		0	3,000,000

AGENCY University of Central Florida
BUDGET ENTITY SUS
PROJECT TITLE Colbourn Hall Renovation

AGENCY PRIORITY 3 / 23
DATE BLDG PROGRAM APPROVED

PURPOSE, NEED, SCOPE, RELATIONSHIP OF PROJECT TO AGENCY OBJECTIVES

Colbourn Hall is an iconic, 41-year old, 84,000 GSF, five story educational building. Departments housed in the building include: English, Writing and Rhetoric, History, Modern Languages and Literatures, Humanities and Digital Affairs, Woman's Studies, Latin and African American Studies, and Judaic Studies. Over the next few years, Political Science and most of the Music department are scheduled to relocate into other new buildings. In order to accommodate expansion by English, History, Foreign Languages and Literatures, Philosophy, OASIS and Interdisciplinary Studies, it will be necessary to renovate all five floors of Colbourn Hall, as well as address all building systems.

The university contracted with the ISES Corporation to conduct a Facilities Condition Assessment (FCA) to benchmark the condition of its E&G facilities. The Colburn Hall renovation will address both critical and non-critical issues identified in the FCA. These issues encompass deficiencies such as indoor air quality, fire alarm modernization, potable water and plumbing distribution systems, electrical service, asbestos, HVAC modernization, lighting upgrades, building automation, ADA compliance, building envelope repairs, interior finishes, flooring, egress, exterior lighting, and utility service entrance upgrades. Information technology upgrades are also required in order to meet current and future technology requirements. The building is showing signs of structural deterioration on the second and third floor exposed exterior walkways, around the perimeter of the building, as well as on steel handrails and structural steel shelf angles throughout.

In 2012, a space on the first floor was renovated and new windows were installed, requiring opening cuts through the exterior wall. This project uncovered structural and waterproofing issues related to the exterior skin of the building, and subsequently triggered a structural analysis of the building. The study concluded that due to water intrusion, the majority of the building skin needs to be removed and replaced, and defects in structural components (such as brick ties and structural reinforcements) were discovered.

From a facilities perspective, the building needs to be gutted to structure and rebuilt to current building codes. Delays in funding the renovation will result in continued, excessive energy use and expensive, stop-gap measures to repair obsolete and antiquated building systems. A renovated facility will be more energy-efficient; and short-term local construction jobs will be created to support the renovations. Once the facility is renovated, the College of Sciences, College of Engineering and Burnett Honors College will benefit by relocating from their current overcrowded locations into a space that will accommodate their expected growth.

From an academic perspective, structural concerns and failing building systems have forced the relocation of some existing faculty. The renovated space will accommodate new faculty lines to be hired from performance funding, improving the "faculty to student" ratio from 32:1 to 28:1

Short of building demolition, there are no alternative options to this renovation. Delay of this project could prevent growth of programs currently housed in the building and could adversely affect health safety issues in the use of existing building.

SUSTAINABILITY AND LEED

The University of Central Florida is committed to sustainability and continued reduction of energy consumption in new construction projects. As energy costs and demands continue to escalate, achieving higher levels of efficiency has become increasingly important to the university's mission. Since 2007, UCF has mandated LEED certification, with most projects achieving Gold. UCF requires specific individual LEED credits that contribute to UCF's core principles including energy efficiency, water conservation, and indoor air quality for all projects. The Department of Utilities & Energy Services provides oversight for all new construction and major renovation projects, and expedites the commissioning process with the latest industry standards to ensure that the university's sustainability goals are met and design parameters achieved.

Classroom/Office

The space classification is predominately classroom or office type, with laboratory or research type minimized. The project will achieve Gold LEED certification from the U.S. Green Building Council (USGBC). Energy consumption will be at least 30% less than the energy standards cited in ASHRAE 90.1-2007, and water consumption will be at least 30% less than that of a comparable building. The project will utilize the district cooling loop for space cooling needs and look at alternative measures to provide dehumidification with the classifications of classroom and offices and related energy use. All heating and reheating will be hydronic.

EDUCATIONAL PLANT SURVEY

The Educational Plant Survey has not been addressed for this project. As the planning year approaches, this project will be addressed.

STATE UNIVERSITY SYSTEM
CIP-3 SHORT TERM PROJECT EXPLANATION

GEOGRAPHIC LOCATION: University of Central Florida, Orlando
COUNTY: Orange
PROJECT DESCRIPTION/TITLE: Colbourn Hall Renovation
PROJECT BR No. (if assigned):

Facility/Space Type	Net Area (NASF)	Net to Gross Conversion	Gross Area (GSF)	Unit Cost (Cost/GSF)*	Construction Cost	Assumed Bid Date	Occupancy Date
Classrooms	0	1.5	0	274	0		
Teaching Labs		1.5	0	268	0		
Research Labs		1.5	0	375	0		
Study		1.4	0	286	0		
Instructional Media		1.5	0	215	0		
Auditorium/Exhibition		1.2	0	310	0		
Gymnasiums		1.2	0	225	0		
Offices		1.5	0	284	0		
Campus Support Services		1.4	0	276	0		
Totals	0		0		0		

*Apply Unit Cost to total GSF based on primary space type

Remodeling/Renovation

73,511	83,957		15,213,375

Total Construction - New & Rem./Renov. 15,213,375

Space Detail for Remodeling Projects

BEFORE		AFTER	
Space Type	Net Area (NASF)	Space Type	Net Area (NASF)
Offices	20,378	Offices	20,378
Classrooms	5,475	Classrooms	5,475
Support Spaces	12,500	Support Spaces	12,500
Total	38,353	Total	38,353

SCHEDULE OF PROJECT COMPONENTS — ESTIMATED COSTS

Basic Construction Cost	Funded to Date	2015-16	2016-17	2017-18	2018-19	2019-2020	Funded & In CIP
1. a.Construction Cost (from above)		15,213,375					15,213,375
Add'l/Extraordinary Const. Costs							-
b.Environmental Impacts/Mitigation							-
c.Site Preparation		86,429					86,429
d.Landscape/Irrigaiton							-
e.Plaza/Walks							-
f.Roadway Improvements							-
g.Parking ___ spaces							-
h.Telecommunication							-
i.Electrical Service							-
j.Water Distribution							-
k.Sanitary Sewer System							-
l.Chilled Water System							-
m.Storm Water System							-
n.Energy Efficient Equipment							-
Total Construction Costs	0	15,213,375	0		0	0	15,299,804
2. Other Project Costs							
a.Land/existing facility acquisition							-
b.Professional Fees		1,008,484					1,008,484
c.Fire Marshall Fees		38,283					38,283
d.Inspection Services		221,087					221,087
e.Insurance Consultant		8,200					8,200
f.Surveys & Tests		45,000					45,000
g.Permit/Impact/Environmental Fees		75,720					75,720
h.Artwork		-					-
i.Moveable Furnishings & Equipment		1,914,172					1,914,172
j.Project Contingency		913,803					913,803
Total - Other Project Costs	-	4,224,749	-	-		-	4,224,749
ALL COSTS 1+2	0	0	0	0	0	0	19,524,553

Appropriations to Date Source	Fiscal Year	Amount
PECO	2012-13	0
TOTAL		-

Project Costs Beyond CIP Period Source	Fiscal Year	Amount
TOTAL		0

Total Project In CIP & Beyond: 0

AGENCY University of Central Florida
BUDGET ENTITY SUS
PROJECT TITLE Engineering Building I Renovation

AGENCY PRIORITY 4
DATE BLDG PROGRAM APPROVED

PURPOSE, NEED, SCOPE, RELATIONSHIP OF PROJECT TO AGENCY OBJECTIVES

Engineering I, a 130,885 GSF facility, has seen continuous use since it was built 30 years ago, and is in dire need of renovation and modernization. A renovation of the building will support continued, essential instruction in the Science, Technology, Engineering, and Math (STEM) disciplines, optimize space occupancy and utilization, enhance the quality of the academic programs, allow for more sophisticated sponsored research opportunities, attract the best students and faculty, and produce excellent graduates. Further delay of the renovation is detrimental to the experience of students and researchers at UCF, as well as the reputation of the preeminent College of Engineering and Computer Science.

The facility currently houses classrooms, instructional and research labs, micro-fabrication clean rooms, offices, conference rooms, and support space for such critical STEM programs as the Engineering Leadership and Innovation Institute (ELI2); Mechanical and Aerospace Engineering (MAE); Civil, Environmental and Construction Engineering (CECE); Materials Science and Engineering (MSE); and Electrical and Computer Engineering (ECE).

MAE and MSE alone serve 2,368 undergraduate and over 200 graduate students. Significant renovation of the facility is needed to accommodate the expansion of the departments. These programs have unique facility needs and, because of the age of the facility, renovation is imperative. Research accomplished by these departments serves dozens of high technology industrial firms located throughout Florida and across the nation.

The College of Engineering and Computer Science at UCF represents the core of UCF's STEM programs. It currently enrolls 7,383 undergraduate students, making it the largest in Florida and the 9th largest in the country.

The university contracted with the ISES Corporation to conduct a Facilities Condition Assessment (FCA) to benchmark the condition of its E&G facilities. The Engineering I renovation will address both critical and non-critical issues identified in the FCA. These issues encompass deficiencies such as indoor air quality, fire alarm modernization, potable water and plumbing distribution systems, electrical service, asbestos, HVAC modernization, lighting upgrades, building automation, ADA compliance, building envelope repairs, interior finishes, flooring, egress, exterior lighting, and utility service entrance upgrades. Information technology upgrades are also required in order to meet current and future requirements.

SUSTAINABILITY AND LEED

The University of Central Florida is committed to sustainability and continued reduction of energy consumption in new construction projects. As energy costs and demands continue to escalate, achieving higher levels of efficiency has become increasingly important to the university's

mission. Since 2007, UCF has mandated LEED certification, with most projects achieving Gold. UCF requires specific individual LEED credits that contribute to UCF's core principles including energy efficiency, water conservation, and indoor air quality for all projects. The Department of Utilities & Energy Services provides oversight for all new construction and major renovation projects, and expedites the commissioning process with the latest industry standards to ensure that the university's sustainability goals are met and design parameters achieved.

Classroom/Office

The space classification is predominately classroom or office type, with laboratory or research type minimized. The project will achieve Gold LEED certification from the U.S. Green Building Council (USGBC). Energy consumption will be at least 30% less than the energy standards cited in ASHRAE 90.1-2007, and water consumption will be at least 30% less than that of a comparable building. The project will utilize the district cooling loop for space cooling needs and look at alternative measures to provide dehumidification with the classifications of classroom and offices and related energy use. All heating and reheating will be hydronic.

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EDUCATIONAL PLANT SURVEY

The Educational Plant Survey was conducted and approved in February 2011. See recommendation No. 2.1 Engineering Building Renovation.

STATE UNIVERSITY SYSTEM
CIP-3 SHORT TERM PROJECT EXPLANATION

Page ___of ___

GEOGRAPHIC LOCATION: University of Central Florida, Orlando
COUNTY: Orange
PROJECT DESCRIPTION/TITLE: Engineering Building I Renovation
PROJECT BR No. (if assigned):

Facility/Space Type	Net Area (NASF)	Net to Gross Conversion	Gross Area (GSF)	Unit Cost (Cost/GSF)*	Construction Cost	Assumed Bid Date	Occupancy Date
Classrooms		1.5	0	195	0		
Teaching Labs		1.5	0	215	0		
Research Labs		1.5	0	375	0		
Study		1.4	0	185	0		
Instructional Media		1.5	0	215	0		
Auditorium/Exhibition		1.2	0	275	0		
Gymnasiums		1.2	0	225	0		
Student Academic Support		1.5	0	185	0		
Offices		1.5	0	190	0		
Campus Support Services		1.4	0	180	0		
Totals	0		0		0		
*Apply Unit Cost to total GSF based on primary space type							
Remodeling/Renovation	118186		130885		14161750		
Total Construction - New & Rem./Renov.					0		

Space Detail for Remodeling Projects

BEFORE		AFTER	
Space Type	Net Area (NASF)	Space Type	Net Area (NASF)
Total	0	Total	0

SCHEDULE OF PROJECT COMPONENTS — ESTIMATED COSTS

Basic Construction Cost	Funded to Date	2016-17	2017-18	2018-19	2019-20	2020-21	Funded & In CIP
1. a.Construction Cost (from above)	2632555	11,529,195					11,529,195
Add'l/Extraordinary Const. Costs							-
b.Environmental Impacts/Mitigation							-
c.Site Preparation	63435						-
d.Landscape/Irrigaiton		555,000					555,000
e.Plaza/Walks							-
f.Roadway Improvements							-
g.Parking ___ spaces							-
h.Telecommunication		129,500					129,500
i.Electrical Service							-
j.Water Distribution							-
k.Sanitary Sewer System							-
l.Chilled Water System							-
m.Storm Water System							-
n.Energy Efficient Equipment							-
Total Construction Costs	2,695,990	12,213,695	0	0	0	0	12,213,695
2. Other Project Costs							
a.Land/existing facility acquisition							-
b.Professional Fees	278392	1,258,967					1,258,967
c.Fire Marshall Fees	7929	39,313					39,313
d.Inspection Services	105500	224,220					224,220
e.Insurance Consultant		8,497					8,497
f.Surveys & Tests		45,000					45,000
g.Permit/Impact/Environmental Fees	31677	77,755					77,755
h.Artwork		-					-
i.Moveable Furnishings & Equipment			981,240				981,240
j.Project Contingency	501235	935,250					935,250
Total - Other Project Costs	924,733	2,589,002	981,240	-	-	-	3,570,242
ALL COSTS 1+2	3,620,723	14,802,697	981,240	0	0	0	15,783,937

Appropriations to Date Source	Fiscal Year	Amount
PECO	2012-13	3,620,723
PECO		
TOTAL		3,620,723

Project Costs Beyond CIP Period Source	Fiscal Year	Amount	Total Project In CIP & Beyond
TOTAL		0	18,423,420

AGENCY University of Central Florida
BUDGET ENTITY SUS
PROJECT TITLE Mathematical Sciences Building Remodeling and Renovation

AGENCY PRIORITY 5
DATE BLDG PROGRAM

APPROVED

PURPOSE, NEED, SCOPE, RELATIONSHIP OF PROJECT TO AGENCY OBJECTIVES

The Mathematical Sciences Building is a 45-year old, 106,523 GSF teaching facility. Its classrooms, teaching and research labs, study rooms, offices, and conference rooms are used by nearly 30,000 students annually. This facility lays the foundation for UCF's Science, Technology, Engineering, and Math (STEM) programs, and provides limited research areas for Mathematics and other building occupants. This building requires a total renovation of its interior space to better support research applications and optimize space occupancy and classroom utilization.

The university contracted with the ISES Corporation to conduct a Facilities Condition Assessment (FCA) to benchmark the condition of its E&G facilities. The Mathematical Sciences renovation will address both critical and non-critical issues identified in the FCA. These issues encompass deficiencies such as indoor air quality, fire alarm modernization, potable water and plumbing distribution systems, electrical service, asbestos, HVAC modernization, lighting upgrades, building automation, ADA compliance, building envelope repairs, interior finishes, flooring, egress, exterior lighting, and utility service entrance upgrades. Information technology upgrades are also required in order to meet current and future requirements.

Space utilization in the facility exceeds the current statutory requirement of 60% student stations occupied at a minimum of 40 hours per week. Over a one-week period during the Fall 2014 semester, using a 40-hour week, class seat utilization averaged 75.7%. During the same period, room utilization averaged 63.4%.

SUSTAINABILITY AND LEED

The University of Central Florida is committed to sustainability and continued reduction of energy consumption in new construction projects. As energy costs and demands continue to escalate, achieving higher levels of efficiency has become increasingly important to the university's mission. Since 2007, UCF has mandated LEED certification, with most projects achieving Gold. UCF requires specific individual LEED credits that contribute to UCF's core principles including energy efficiency, water conservation, and indoor air quality for all projects. The Department of Utilities & Energy Services provides oversight for all new construction and major renovation projects, and expedites the commissioning process with the latest industry standards to ensure that the university's sustainability goals are met and design parameters achieved.

Classroom/Office

The space classification is predominately classroom or office type, with laboratory or research type minimized. The project will achieve Gold LEED certification from the U.S. Green Building

Council (USGBC). Energy consumption will be at least 30% less than the energy standards cited in ASHRAE 90.1-2007, and water consumption will be at least 30% less than that of a comparable building. The project will utilize the district cooling loop for space cooling needs and look at alternative measures to provide dehumidification with the classifications of classroom and offices and related energy use. All heating and reheating will be hydronic.

Research/Laboratory

Despite the fact that the predominant space classification of this building is classroom and office type, there are a number of research and teaching laboratories, and research support spaces belonging to multiple colleges. Laboratories will have continuous variable air flow valves with air flow reset capabilities. Domestic and laboratory hot water needs will be provided primarily by solar thermal energy.

EDUCATIONAL PLANT SURVEY

The Educational Plant Survey was conducted and approved in February, 2011. See recommendation No. 2.2 Math Sciences Building Remodeling and Renovation (formerly known as Math and Physics Building).

STATE UNIVERSITY SYSTEM
CIP-3 SHORT TERM PROJECT EXPLANATION

Page ___of ___

GEOGRAPHIC LOCATION: University of Central Florida, Orlando
COUNTY: Orange
PROJECT DESCRIPTION/TITLE: Math Sciences Building Rem and Ren
PROJECT BR No. (if assigned):___

Facility/Space Type	Net Area (NASF)	Net to Gross Conversion	Gross Area (GSF)	Unit Cost (Cost/GSF)*	Construction Cost	Assumed Bid Date	Occupancy Date
Classrooms		1.5	0	274	0		
Teaching Labs		1.5	0	268	0		
Research Labs		1.5	0	375	0		
Study		1.4	0	286	0		
Instructional Media		1.5	0	213	0		
Auditorium/Exhibition		1.2	0	310	0		
Gymnasiums		1.2	0	217	0		
Offices		1.5	0	284	0		
Campus Support Services		1.4	0	276	0		
Totals	0		0		0		

*Apply Unit Cost to total GSF based on primary space type

Remodeling/Renovation
100289 106523

Total Construction - New & Rem./Renov. 10,673,348

Space Detail for Remodeling Projects

BEFORE		AFTER	
Space Type	Net Area (NASF)	Space Type	Net Area (NASF)
Teaching Labs	1,986	Teaching Labs	1,986
Research Labs	7,719	Research Labs	7,719
Offices	5,479	Offices	5,479
Total	15,184	Total	15,184

SCHEDULE OF PROJECT COMPONENTS — ESTIMATED COSTS

Basic Construction Cost	Funded to Date	2016-17	2017-18	2018-19	2019-2020	2020-21	Funded & In CIP
1. a.Construction Cost (from above)	2,896,788	7,776,560					10,673,348
Add'l/Extraordinary Const. Costs							-
b.Environmental Impacts/Mitigation							-
c.Site Preparation	69,802	176,740					246,542
d.Landscape/Irrigaiton							-
e.Plaza/Walks							-
f.Roadway improvements							-
g.Parking ___ spaces							-
h.Telecommunication							-
i.Electrical Service							-
j.Water Distribution							-
k.Sanitary Sewer System							-
l.Chilled Water System							-
m.Storm Water System							-
n.Energy Efficient Equipment							-
Total Construction Costs	2,966,590	7,953,300	0	0	0	0	10,919,890
2. Other Project Costs							
a.Land/existing facility acquisition							-
b.Professional Fees	269,492	879,230					1,148,722
c.Fire Marshall Fees	8,725	22,092					30,817
d.Inspection Services	25,000	125,000					150,000
e.Insurance Consultant	1,738	4,666					6,404
f.Surveys & Tests	51,157						51,157
g.Permit/Impact/Environmental Fees	31,677	60,534					92,211
h.Artwork		-					-
i.Moveable Furnishings & Equipment			742,560				742,560
j.Project Contingency	523,496	950,147					1,473,643
Total - Other Project Costs	911,285	2,041,669	742,560	-	-	-	3,695,514
ALL COSTS 1+2	3,877,875	9,994,969	742,560	0	0	0	14,615,404

Appropriations to Date Source	Fiscal Year	Amount
PECO	2012-13	3,877,895
TOTAL		3,877,895

Project Costs Beyond CIP Period Source	Fiscal Year	Amount
TOTAL		0

Total Project In CIP & Beyond: 14,615,404

AGENCY University of Central Florida
BUDGET ENTITY SUS
PROJECT TITLE Trevor Colbourn Hall

AGENCY PRIORITY 6 / 24
DATE BLDG PROGRAM APPROVED

PURPOSE, NEED, SCOPE, RELATIONSHIP OF PROJECT TO AGENCY OBJECTIVES

The Trevor Colbourn Hall will be an academic building, intended to match the overall space categories and square footage of the existing Colbourn Hall, while adding an additional floor for departmental growth. The new building will support, as closely as possible, the academic programs and support units currently housed in Colbourn Hall. Built in 1974, with some renovation in the early 1990s, Colbourn Hall is in dire need of a comprehensive renovation of all building systems and interior spaces, as well as replacement of the entire exterior brick facade. It has been in continuous operation since it was completed, and is approximately 83,957 GSF.

The projected cost to renovate 41-year old Colbourn Hall, and the requirement to displace its building occupants during the entire renovation has proven to be expensive and disruptive. The university considered construction phasing and its associated construction time, and leasing trailers for the temporary relocation of current occupants. Based on these factors, construction of a new building, Trevor Colbourn Hall, is the best and most cost-effective approach before renovating Colbourn Hall. The new building will be pragmatic in concept, functional, and maintainable, while maximizing useable square footage to the fullest.

Departments and offices moving from Colbourn Hall to the new facility are: English, Writing and Rhetoric, History, Modern Languages, Texts and Technology; Judaic Studies, Africana Studies, Women's Studies, Latin American Studies; the College of Arts & Humanities Advising Office, the College of Arts & Humanities Tech Office, College of Arts and Humanities offices, Philosophy the University Writing Center, the Center for Humanities and Digital Research, the Graduate Student Center; Rosen College of Hospitality Management offices, offices for new faculty being hired, and seven (7) classrooms.

SUSTAINABILITY AND LEED

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Classroom/Office

The space classification is predominately classroom or office type, with laboratory or research type minimized. The project will achieve Gold LEED certification from the U.S. Green Building Council (USGBC). Energy consumption will be at least 30% less than the energy standards cited in ASHRAE 90.1-2007, and water consumption will be at least 30% less than that of a comparable building. The project will utilize the district cooling loop for space cooling needs and look at alternative measures to provide dehumidification with the classifications of classroom and offices and related energy use. All heating and reheating will be hydronic.

EDUCATIONAL PLANT SURVEY

The Educational Plant Survey has not been addressed for this project. As the planning year approaches, this project will be addressed.

STATE UNIVERSITY SYSTEM
CIP-3 SHORT TERM PROJECT EXPLANATION

GEOGRAPHIC LOCATION: University of Central Florida, Orlando
COUNTY: Orange
PROJECT DESCRIPTION/TITLE: Trevor Colburn Hall
PROJECT BR No. (if assigned):

Facility/Space Type	Net Area (NASF)	Net to Gross Conversion	Gross Area (GSF)	Unit Cost (Cost/GSF)*	Construction Cost	Assumed Bid Date	Occupancy Date
Classrooms	5,675	1.5	8,513	274	2,332,425		
Teaching Labs	2,750	1.5	4,125	268	1,105,500		
Research Labs	0	1.5	0	375	0		
Study	0	1.4	0	286	0		
Instructional Media	0	1.5	0	215	0		
Auditorium/Exhibition	0	1.2	0	310	0		
Gymnasiums	0	1.2	0	217	0		
Offices	37,975	1.5	56,963	284	16,177,350		
Campus Support Serv	6,150	1.4	8,610	276	2,376,360		
Totals	52,550		78,210		21,991,635		

*Apply Unit Cost to total GSF based on primary space type

Space Detail for Remodeling Projects

	BEFORE		AFTER	
	Space Type	Net Area (NASF)	Space Type	Net Area (NASF)
Remodeling/Renovation				
Total Construction - New & Rem./Renov.	Total	0	Total	0

SCHEDULE OF PROJECT COMPONENTS — ESTIMATED COSTS

Basic Construction Cost	Funded to Date	2015-16	2016-17	2017-18	2018-19	2019-2020	Funded & In CIP
1. a.Construction Cost (from above)	-	21,991,635					21,991,635
Add'l/Extraordinary Const. Costs							-
b.Environmental Impacts/Mitigation							-
c.Site Preparation		200,000					200,000
d.Landscape/Irrigaiton		175,000					175,000
e.Plaza/Walks							-
f.Roadway Improvements							-
g.Parking ___ spaces							-
h.Telecommunication		175,000					175,000
i.Electrical Service							-
j.Water Distribution							-
k.Sanitary Sewer System							-
l.Chilled Water System							-
m.Storm Water System							-
n.Energy Efficient Equipment							-
Total Construction Costs	0	22,541,635		0	0	0	22,541,635
2. Other Project Costs							
a.Land/existing facility acquisition							-
b.Professional Fees		1,325,881					1,325,881
c.Fire Marshall Fees		54,853					54,853
d.Inspection Services		100,000					100,000
e.Insurance Consultant		12,004					12,004
f.Surveys & Tests		35,000					35,000
g.Permit/Impact/Environmental Fees		87,575					87,575
h.Artwork		100,000					100,000
i.Moveable Furnishings & Equipment		900,000					900,000
j.Project Contingency		1,018,439					1,018,439
Total - Other Project Costs	-	3,633,752			-	-	3,633,752
ALL COSTS 1+2		26,175,387	0	0	0	0	26,175,387

Appropriations to Date Source	Fiscal Year	Amount	Project Costs Beyond CIP Period Source	Fiscal Year	Amount	Total Project In CIP & Beyond
		0				26,175,387
TOTAL		-	TOTAL		0	26,175,387

AGENCY University of Central Florida
BUDGET ENTITY SUS
PROJECT TITLE John C. Hitt Library Renovation Phase II

AGENCY PRIORITY 7
DATE BLDG PROGRAM
APPROVED

PURPOSE, NEED, SCOPE, RELATIONSHIP OF PROJECT TO AGENCY OBJECTIVES

The John C. Hitt Library, built in 1967 when enrollment was 1,948 students, is woefully inadequate 48 years later to meet the growing needs of current and future student populations. The existing library, with a collection of over 1.2 million print volumes, is open 105 hours per week, and has a patron count of almost 1, million visits per year. During a typical midterm week 39,000 people frequent the library. The existing Library presently has 1,903 reader seats, which represents about 7% of the main campus FTE, and is significantly less than the minimum requirements recommended by the Association of College and Research Libraries.

The university contracted with the ISES Corporation to conduct a Facilities Condition Assessment (FCA) to benchmark the condition of its E&G facilities. The John C Hitt Library renovation will address both critical and non-critical issues identified in the FCA. These issues encompass deficiencies such as indoor air quality, fire alarm modernization, potable water and plumbing distribution systems, electrical service, asbestos, HVAC modernization, lighting upgrades, building automation, ADA compliance, building envelope repairs, interior finishes, flooring, egress, exterior lighting, and utility service entrance upgrades. Information technology upgrades are also required in order to meet current and future requirements.

The 21st Century Library project involves the construction of a 41,000 sq. ft. addition on the north side of the building and the complete renovation of the existing building (consisting of the original 1967 building and the adjoining 1984 addition). This project will accommodate 3,394 seats, about 10% of the main campus FTE. The new construction will consist of a four-story automated retrieval system (ARC) that will provide quick access to a computer-managed storage system with a capacity of 1,250,000 items. This will allow lesser used material to be stored in the ARC and free up valuable square footage for user space in the Library. Although approximately 75% of the materials will be housed in the ARC, library users will still have open access to more than 270,000 materials, including items within the reference collection, general collection, and government documents. The most current and heavily used items, as well as those most suited to browsing, will remain on open shelves. The retrieval system will provide the library with space to grow collections.

When completed, the renovated and expanded facility will include redesigned, more efficient and flexible interior spaces featuring greatly increased seating in information literacy classrooms; triple the number of group study rooms; a 24/7 study area; a digital initiatives center; additional Special Collections and University Archives space; and more than twice the number of technology workstations. Additional features will include dedicated graduate study space and quiet study areas. The library will integrate advances in technology seamlessly with library services and collections.

SUSTAINABILITY AND LEED

The University of Central Florida is committed to sustainability and continued reduction of energy consumption in new construction projects. As energy costs and demands continue to escalate, achieving higher levels of efficiency has become increasingly important to the university's mission. Since 2007, UCF has mandated LEED certification, with most projects achieving Gold. UCF requires specific individual LEED credits that contribute to UCF's core principles including energy efficiency, water conservation, and indoor air quality for all projects. The Department of Utilities & Energy Services provides oversight for all new construction and major renovation projects, and expedites the commissioning process with the latest industry standards to ensure that the university's sustainability goals are met and design parameters achieved.

Classroom/Office

The space classification is predominately open stack study rooms, stacks, or office type, with laboratory or research type minimized. The project will achieve Gold LEED certification from the U.S. Green Building Council (USGBC). Energy consumption will be at least 30% less than the energy standards cited in ASHRAE 90.1-2007, and water consumption will be at least 30% less than that of a comparable building. The project will utilize the district cooling loop for space cooling needs and look at alternative measures to provide dehumidification with the classifications of classroom and offices and related energy use. All heating and reheating will be hydronic.

EDUCATIONAL PLANT SURVEY

The Educational Plant Survey was conducted and approved in February, 2011. See recommendation No. 2.4, Library Building Renovation.

STATE UNIVERSITY SYSTEM
CIP-3 SHORT TERM PROJECT EXPLANATION

Page ___of ___

GEOGRAPHIC LOCATION: University of Central Florida, Orlando
COUNTY: Orange
PROJECT DESCRIPTION/TITLE: John C. Hitt Library Renovation
PROJECT BR No. (if assigned):___

Facility/Space Type	Net Area (NASF)	Net to Gross Conversion	Gross Area (GSF)	Unit Cost (Cost/GSF)*	Construction Cost	Assumed Bid Date	Occupancy Date
Classrooms	0	1.5	0	274	0		
Teaching Labs		1.5	0	215	0		
Research Labs		1.5	0	375	0		
Study		1.4	0	185	0		
Instructional Media		1.5	0	215	0		
Auditorium/Exhibition		1.2	0	275	0		
Gymnasiums		1.2	0	225	0		
Student Academic Support		1.5	0	185	0		
Offices		1.5	0	190	0		
Campus Support Services		1.4	0	180	0		
Totals	0		0		0		

*Apply Unit Cost to total GSF based on primary space type

Remodeling/Renovation

		2262387			

Total Construction - New & Rem./Renov. 0

Space Detail for Remodeling Projects

BEFORE		AFTER	
Space Type	Net Area (NASF)	Space Type	Net Area (NASF)
Classrooms	27,274		
Library/Study	134,113		
Inst Media	15,000		
Office/Computer	50,000		
Total	226,387	Total	0

SCHEDULE OF PROJECT COMPONENTS — ESTIMATED COSTS

Basic Construction Cost	Funded to Date	2016-17	2017-18	2018-19	2019-2020	2020-2021	Funded & In CIP
1. a.Construction Cost (from above)			25,952,806				25,952,806
Add'l/Extraordinary Const. Costs							-
b.Environmental Impacts/Mitigation							-
c.Site Preparation			607,360				607,360
d.Landscape/Irrigaiton			500,000				500,000
e.Plaza/Walks							-
f.Roadway Improvements							-
g.Parking ___ spaces							-
h.Telecommunication			271,034				271,034
i.Electrical Service							-
j.Water Distribution							-
k.Sanitary Sewer System							-
l.Chilled Water System							-
m.Storm Water System							-
n.Energy Efficient Equipment							-
Total Construction Costs	0	0	27,331,200	0	0	0	27,331,200
2. Other Project Costs							
a.Land/existing facility acquisition							-
b.Professional Fees		2,804,627					2,804,627
c.Fire Marshall Fees		75,920					75,920
d.Inspection Services		295,790					295,790
e.Insurance Consultant		15,572					15,572
f.Surveys & Tests		150,000					150,000
g.Permit/Impact/Environmental Fees		101,101					101,101
h.Artwork		-					-
i.Moveable Furnishings & Equipment				3,712,800			3,712,800
j.Project Contingency		269,790	3,962,400				4,232,190
Total - Other Project Costs	-	3,712,800	3,962,400	3,712,800	-	-	11,388,000
ALL COSTS 1+2	0	3,712,800	31,293,600	3,712,800	0	0	38,719,200

Appropriations to Date Source	Fiscal Year	Amount	Project Costs Beyond CIP Period Source	Fiscal Year	Amount	Total Project In CIP & Beyond
PECO	2012-13	0				
TOTAL		-	TOTAL		0	38,719,200

AGENCY University of Central Florida

BUDGET ENTITY SUS
PROJECT TITLE UCF Downtown
Building 1

AGENCY PRIORITY 8 / 19
DATE BLDG PROGRAM APPROVED

PURPOSE, NEED, SCOPE, RELATIONSHIP OF PROJECT TO AGENCY OBJECTIVES

The University of Central Florida intends to build a campus in downtown Orlando that will ultimately enroll approximately 15,000 students at full buildout. The campus will provide new academic learning spaces and focus on the growing fields of digital media and communications, as well as public health and public affairs. Locating these programs in downtown Orlando in interactive, innovative new learning environments will provide increased experiential and internship opportunities for students in these fields, along with enhanced networking and research or collaborative academic partnerships with faculty and the professional community in downtown Orlando. Additionally, one-time investment in developing and constructing UCF Downtown facilities and related infrastructure is expected to generate $575 million in gross economic income and 4,070 jobs, providing $255 million in wages and salaries.[1]

Building 1 is critical to the success of the new downtown campus, and will be home to academic programs such as digital media, health management and informatics, legal studies, communication, and a PhD track in exceptional education. This building will house 9 academic programs of strategic emphasis, as defined by the Florida Board of Governors. Building 1 also will serve 4,859 UCF students (based upon Fall 2018 enrollment projections). Programs in Building 1 are in high demand and will prepare students for occupations in growing industries. The U.S. Department of Labor Bureau of Labor Statistics predicts high growth from 2012 to 2022 for the following occupations linked to this building's academic programs: 26.8% growth in Healthcare Social Workers, 23.2% growth in Medical and Health Services Managers, 16.7% growth in Paralegals and Legal Assistants, 6.7% growth in Graphic Designers, and 6.3% in Multimedia Artists and Animators. In addition to strong growth, these occupations have recorded strong annual earnings. Medical and Health Services Managers earn an average salary of $113,490, and Multimedia Artists and Animators earn an average salary of $53,110. In addition, Building 1 will serve 423 students from Valencia College in programs strategically aligned with UCF's degree programs. Valencia will relocate the Associate of Science in Health Information Technology, the Associate of Science in Digital Media and offer the full range of courses supporting the Associate of Arts degree in Building 1. In total, Building 1 will serve 5,282 students from UCF and Valencia.

Students studying in Building 1 will be within a 15-minute walk of many valuable experiential learning opportunities they would not find in such close proximity to UCF's main campus. For example, legal studies majors could intern at the Orange County Courthouse or the dozens of law firms located in the immediate area. Additionally, the building will provide space for several of UCF's community-facing programs, such as its new pilot inclusive education initiative for

1 *UCF Downtown Economic Impact and Fiscal Impact Analysis*, 2014. GAI Consultants.

students with intellectual disabilities and its centers for community schools and nonprofit management.

Building 1 will be 165,000 gross square feet dedicated to flexible learning environments, teaching laboratories and collaborative learning spaces that encourage interdisciplinary education and problem solving. This facility will break down traditional brick-and-mortar barriers and encourage synergies among faculty, staff, and students through intentional space design. In addition, this facility will be designed to flexibly adapt to new trends related to innovative teaching and learning.

Building 1, as part of the UCF Downtown campus, will create a dynamic learning environment for students in strategically selected programs in addition to meeting the needs of growing occupations within the region and across the state.

SUSTAINABILITY AND LEED

UCF is committed to sustainability and continued reduction of energy consumption in new construction projects. As energy costs and demands continue to escalate, achieving higher levels of efficiency has become increasingly important to the university's mission. Since 2007, UCF has mandated LEED certification, with most projects achieving Gold. UCF requires specific individual LEED credits that contribute to UCF's core principles including energy efficiency, water conservation, and indoor air quality for all projects. The Department of Utilities & Energy Services provides oversight for all new construction and major renovation projects, and expedites the commissioning process with the latest industry standards to ensure that the university's sustainability goals are met and design parameters achieved.

Classroom/Office

The space classification is predominately classroom or office type, with laboratory or research type minimized. The project will achieve Gold LEED certification from the U.S. Green Building Council (USGBC). Energy consumption will be at least 30% less than the energy standards cited in ASHRAE 90.1-2007, and water consumption will be at least 30% less than that of a comparable building. The project will utilize the district cooling loop for space cooling needs and look at alternative measures to provide dehumidification with the classifications of classroom and offices and related energy use. All heating and reheating will be hydronic.

EDUCATIONAL PLANT SURVEY

The Educational Plant Survey has not been addressed for this project. As the planning year approaches, this project will be addressed.

STATE UNIVERSITY SYSTEM
CIP-3 SHORT TERM PROJECT EXPLANATION

GEOGRAPHIC LOCATION: University of Central Florida, Orlando
COUNTY: Orange
PROJECT DESCRIPTION/TITLE: UCF Downtown Campus Building I
PROJECT BR No. (if assigned):___

Facility/Space Type	Net Area (NASF)	Net to Gross Conversion	Gross Area (GSF)	Unit Cost (Cost/GSF)*	Construction Cost	Assumed Bid Date	Occupancy Date
Classrooms	28,000	1.5	42,000	274	11,508,000		
Teaching Labs	28,000	1.5	42,000	268	11,256,000		
Research Labs	0	1.5	0	375	0		
Study	10,714	1.4	15,000	286	4,289,886		
Instructional Media	20,000	1.5	30,000	213	6,390,000		
Auditorium/Exhibition	8,334	1.2	10,001	310	3,100,248		
Gymnasiums	0	1.2	0	225	0		
Offices	17,333	1.5	26,000	284	7,383,858		
Campus Support Services	0	1.4	0	276	0		
Totals	112,381		165,000		43,927,992		

*Apply Unit Cost to total GSF based on primary space type

Remodeling/Renovation

Total Construction - New & Rem./Renov. 43,927,992

Space Detail for Remodeling Projects

BEFORE		AFTER	
Space Type	Net Area (NASF)	Space Type	Net Area (NASF)
Total	0	Total	0

SCHEDULE OF PROJECT COMPONENTS — ESTIMATED COSTS

Basic Construction Cost	Funded to Date	2016-17	2017-18	2018-19	2019-20	2020-21	Funded & In CIP
1. a.Construction Cost (from above)		43,927,992					-
Add'l/Extraordinary Const. Costs							-
b.Environmental Impacts/Mitigation		-					-
c.Site Preparation		424,736					-
d.Landscape/Irrigaiton		216,000					-
e.Plaza/Walks		324,000					-
f.Roadway Improvements		-					-
g.Parking ___ spaces		-					-
h.Telecommunication		1,620,000					-
i.Electrical Service		124,538					-
j.Water Distribution		77,476					-
k.Sanitary Sewer System		224,721					-
l.Chilled Water System		-					-
m.Storm Water System		-					-
n.Energy Efficient Equipment		-					-
Total Construction Costs	0	46,939,462	0	0	0	0	0
2. Other Project Costs							
a.Land/existing facility acquisition							-
b.Professional Fees		2,398,057					-
c.Fire Marshall Fees		110,700					-
d.Inspection Services		102,500					-
e.Insurance Consultant		-					-
f.Surveys & Tests		100,000					-
g.Permit/Impact/Environmental Fees		218,950					-
h.Artwork		100,000					-
i.Moveable Furnishings & Equipment		5,012,831					-
j.Project Contingency		2,767,500					-
Total - Other Project Costs	-	10,810,538	-	-	-	-	-
ALL COSTS 1+2	0	57,750,000	0	0	0	0	0

Appropriations to Date Source	Fiscal Year	Amount
		0
TOTAL		-

Project Costs Beyond CIP Period Source	Fiscal Year	Amount
TOTAL		0

Total Project In CIP & Beyond: 0

AGENCY University of Central Florida

BUDGET ENTITY SUS
PROJECT TITLE UCF Downtown Building 2

AGENCY PRIORITY 9 / 20
DATE BLDG PROGRAM APPROVED

PURPOSE, NEED, SCOPE, RELATIONSHIP OF PROJECT TO AGENCY OBJECTIVES

The University of Central Florida intends to build a campus in downtown Orlando that will ultimately enroll approximately 15,000 students at full buildout. The campus will provide for new academic learning space and focus on the growing fields of digital media and communications, as well as public health and public affairs. Locating these programs in downtown Orlando in interactive, innovative new learning environments will provide increased experiential and internship opportunities for students in these fields, along with enhanced networking and research or collaborative academic partnerships with faculty and the professional community in downtown Orlando. Additionally, one-time investment in developing and constructing UCF Downtown facilities and related infrastructure is expected to generate a total $575 million in gross economic income and 4,070 jobs, providing $255 million in wages and salaries.[1]

Building 2 is critical to the success of the new downtown campus, and will be home to academic programs such as advertising and public relations, emerging media and graphic design, journalism, radio/television, and film. This building will house one out of the 13 academic programs of strategic emphasis, as defined by the Florida Board of Governors, planned at the downtown campus. Building 2 also will serve 1,603 UCF students (based upon Fall 2018 enrollment projections). Programs in Building 2 are in high demand and will prepare students for occupations in growing industries. The U.S. Department of Labor Bureau of Labor Statistics predicts high growth from 2012 to 2022 for the following occupations linked to this building's academic programs: 12% growth in Public Relations Specialists and 6.9% growth in Advertising and Promotions Managers. In addition to strong growth, these occupations have recorded strong annual earnings. Advertising and Promotions Managers earn an average salary of $117,550, and Public Relations Specialists earn an average salary of $58,650. In addition, Building 2 will serve 863 students from Valencia College in programs strategically aligned with UCF's degree programs. Valencia will relocate the Associate of Science in Graphic Design and offer additional courses to support the anticipated growth of the Associate of Arts degree within the facility. In total, Building 2 will serve 2,466 students from UCF and Valencia.

Students studying in Building 2 will be within a 15-minute walk of many valuable experiential learning opportunities they would not find in such close proximity to UCF's main campus. For example, journalism majors could intern at the Orlando Sentinel in its digital newsroom or at the 24-hour broadcast station Central Florida News 13. Additionally, the building will provide space for several of UCF's community-facing operations, such as its public radio and television stations.

Building 2 will be 222,000 gross square feet dedicated to flexible learning environments, teaching laboratories and collaborative learning spaces that encourage interdisciplinary education and

1 *UCF Downtown Economic Impact and Fiscal Impact Analysis*, 2014. GAI Consultants.

problem solving. In addition, this facility will feature state-of-the-art production studios and editing facilities to support the highly technical communication programs housed within the building. This facility will break down traditional brick-and-mortar barriers and encourage synergies among faculty, staff, and students through intentional space design. In addition, this facility will be designed to flexibly adapt to new trends related to innovative teaching and learning and flexibly share studios between all academic programs.

Building 2, as part of the UCF Downtown campus, will create a dynamic learning environment for students in strategically selected programs in addition to meeting the needs of growing occupations within the region and across the state.

SUSTAINABILITY AND LEED

UCF is committed to sustainability and continued reduction of energy consumption in new construction projects. As energy costs and demands continue to escalate, achieving higher levels of efficiency has become increasingly important to the university's mission. Since 2007, UCF has mandated LEED certification, with most projects achieving Gold. UCF requires specific individual LEED credits that contribute to UCF's core principles including energy efficiency, water conservation, and indoor air quality for all projects. The Department of Utilities & Energy Services provides oversight for all new construction and major renovation projects, and expedites the commissioning process with the latest industry standards to ensure that the university's sustainability goals are met and design parameters achieved.

Classroom/Office

The space classification is predominately classroom or office type, with laboratory or research type minimized. The project will achieve Gold LEED certification from the U.S. Green Building Council (USGBC). Energy consumption will be at least 30% less than the energy standards cited in ASHRAE 90.1-2007, and water consumption will be at least 30% less than that of a comparable building. The project will utilize the district cooling loop for space cooling needs and look at alternative measures to provide dehumidification with the classifications of classroom and offices and related energy use. All heating and reheating will be hydronic.

EDUCATIONAL PLANT SURVEY

The Educational Plant Survey has not been addressed for this project. As the planning year approaches, this project will be addressed.

STATE UNIVERSITY SYSTEM
CIP-3 SHORT TERM PROJECT EXPLANATION

Page ___of ___

GEOGRAPHIC LOCATION: University of Central Florida, Orlando
COUNTY: Orange
PROJECT DESCRIPTION/TITLE: UCF Downtown Campus Building II
PROJECT BR No. (if assigned):

Facility/Space Type	Net Area (NASF)	Net to Gross Conversion	Gross Area (GSF)	Unit Cost (Cost/GSF)*	Construction Cost	Assumed Bid Date	Occupancy Date
Classrooms	37,740	1.5	56,610	274	15,511,140		
Teaching Labs	38,851	1.5	58,277	268	15,618,102		
Research Labs	0	1.5	0	375	0		
Study	11,193	1.4	15,670	286	4,481,677		
Instructional Media	32,876	1.5	49,314	213	10,503,882		
Auditorium/Exhibition	7,893	1.2	9,472	310	2,936,196		
Gymnasiums	0	1.2	0	225	0		
Offices	21,772	1.5	32,658	284	9,274,872		
Campus Support Services	0	1.4	0	276	0		
Totals	150,325		222,000		58,325,869		

*Apply Unit Cost to total GSF based on primary space type

Remodeling/Renovation

Total Construction - New & Rem./Renov. 58,325,869

Space Detail for Remodeling Projects

BEFORE		AFTER	
Space Type	Net Area (NASF)	Space Type	Net Area (NASF)
Total	0	Total	0

SCHEDULE OF PROJECT COMPONENTS — ESTIMATED COSTS

Basic Construction Cost	Funded to Date	2016-17	2017-18	2018-19	2019-20	2020-21	Funded & In CIP
1. a.Construction Cost (from above)		58,325,869					-
Add'l/Extraordinary Const. Costs							-
b.Environmental Impacts/Mitigation		-					-
c.Site Preparation		1,728,000					-
d.Landscape/Irrigaiton		864,000					-
e.Plaza/Walks		1,296,000					-
f.Roadway Improvements		-					-
g.Parking ___ spaces		-					-
h.Telecommunication		2,180,000					-
i.Electrical Service		179,212					-
j.Water Distribution		111,489					-
k.Sanitary Sewer System		323,379					-
l.Chilled Water System		-					-
m.Storm Water System		-					-
n.Energy Efficient Equipment		-					-
Total Construction Costs	0	65,007,949	0	0	0	0	0
2. Other Project Costs							
a.Land/existing facility acquisition							-
b.Professional Fees		3,449,941					-
c.Fire Marshall Fees		150,930					-
d.Inspection Services		147,500					-
e.Insurance Consultant		-					-
f.Surveys & Tests		-					-
g.Permit/Impact/Environmental Fees		315,074					-
h.Artwork		100,000					-
i.Moveable Furnishings & Equipment		4,563,431					-
j.Project Contingency		3,982,500					-
Total - Other Project Costs	-	12,709,376		-	-	-	-
ALL COSTS 1+2	0	77,717,325	0	0	0	0	0

Appropriations to Date Source	Fiscal Year	Amount
		0
TOTAL		-

Project Costs Beyond CIP Period Source	Fiscal Year	Amount
TOTAL		0

Total Project In CIP & Beyond: 0

AGENCY University of Central Florida
BUDGET ENTITY SUS
PROJECT TITLE Arts Complex Phase II (Performance)

AGENCY PRIORITY 10
DATE BLDG PROGRAM
APPROVED

PURPOSE, NEED, SCOPE, RELATIONSHIP OF PROJECT TO AGENCY OBJECTIVES

This project is phase two of the Center for the Arts. Phase I, completed in 2010, provided classroom, support, and office space for Theatre and Music; Phase II will provide performance space for both units, while offering interdisciplinary benefits to the educational experience. Construction of this phase will provide the educational spaces needed to expand and support existing graduate and undergraduate programs in the performing arts, and graduate world-class talent. This facility comprising rehearsal spaces, specialized production areas, functional lab spaces, classrooms, supporting offices, and storage will attract regional community activities to campus. Construction of the facility will create three hundred and sixteen construction jobs, and thirty nine permanent jobs, as estimated by the UCF Institute for Economic Competitiveness. Future planning for Phase III will place production units in closer proximity to the performance auditoriums, and provide additional instructional and performing spaces.

Phase II is crucial to the success of the Center for the Arts, as existing entertainment spaces on campus are not suitable for the various types of performances. Currently the 150-seat Rehearsal Hall is not suitable for orchestral performances. Additionally a 450-seat auditorium in the Visual Arts Building, designed as a lecture hall not a performance venue, is used as a performance venue for concerts. Similarly, Theatre students perform in an awkwardly-shaped 300-seat house that was originally a lecture hall and in a small black box theater. None of the existing on-campus performance venues are suitable for dance performances.

This proposed Phase II project includes a 600-seat concert hall, a 263-seat recital/lecture hall, a 520-seat proscenium theatre, and a 225-seat black box theatre. These spaces are to be attractive, comfortable, technologically advanced and functional. They are to be "state-of-the-art" facilities with special emphasis given to acoustics, lighting, and stagecraft. In addition to providing performances, the facility will be designed for teaching and lab space, to include scene shops, costume shops, and welding areas. Built to professional standards that include the most advanced of technologies, these spaces can be accessed, shared, and experienced on many different platforms in addition to the traditional, live performance setting.

Phase II will enrich all UCF programs by emphasizing the critical importance of the arts, thus encouraging creativity and innovation across other academic disciplines. This convergence between the arts and other fields of study is central to the Center's contributions to UCF's vision of becoming a top-tier research university: creating opportunity through access, partnerships, interdisciplinary endeavors and community engagement. The need for the university to embrace and promote cultural activity and diversity is basic to its educational mission.

The benefits of the new Performing Arts Center will be far reaching in Florida's vital tourism industry, as UCF further develops its programs, and faculty and students enter the professional talent pool. The Center will enhance collaborations with community-based industry partners such as Walt Disney World, Universal Studios and Cirque du Soleil and open the door to other artistic opportunities. Because of Orlando's prominence as an international tourist destination, the Center and all of its activities will steer UCF toward greater international recognition.

SUSTAINABILITY AND LEED

The University of Central Florida is committed to sustainability and continued reduction of energy consumption in new construction projects. As energy costs and demands continue to escalate, achieving higher levels of efficiency has become increasingly important to the university's mission. Since 2007, UCF has mandated LEED certification, with most projects achieving Gold. UCF requires specific individual LEED credits that contribute to UCF's core principles including energy efficiency, water conservation, and indoor air quality for all projects. The Department of Utilities & Energy Services provides oversight for all new construction and major renovation projects, and expedites the commissioning process with the latest industry standards to ensure that the university's sustainability goals are met and design parameters achieved.

Classroom/Office

The space classification is predominately assembly, exhibition, and classroom or office type, with laboratory or research type minimized. The project will achieve Gold LEED certification from the U.S. Green Building Council (USGBC). Energy consumption will be at least 30% less than the energy standards cited in ASHRAE 90.1-2007, and water consumption will be at least 30% less than that of a comparable building. The project will utilize the district cooling loop for space cooling needs and look at alternative measures to provide dehumidification with the classifications of classroom and offices and related energy use. All heating and reheating will be hydronic.

EDUCATIONAL PLANT SURVEY

The Educational Plant Survey was conducted and approved in February, 2011. See recommendation No. 3.2, Performance Arts Center (Phase II).

STATE UNIVERSITY SYSTEM
CIP-3 SHORT TERM PROJECT EXPLANATION

Page ___of ___

GEOGRAPHIC LOCATION: University of Central Florida, Orlando
COUNTY: Orange
PROJECT DESCRIPTION/TITLE: Arts Complex Phase II (Performance)
PROJECT BR No. (if assigned):____

Facility/Space Type	Net Area (NASF)	Net to Gross Conversion	Gross Area (GSF)	Unit Cost (Cost/GSF)*	Construction Cost	Assumed Bid Date	Occupancy Date
Classrooms	25,000	1.5	37,500	274	10,275,000		
Teaching Labs	15,000	1.5	22,500	268	6,030,000		
Research Labs	0	1.5	0	375	0		
Study	0	1.4	0	286	0		
Instructional Media	0	1.5	0	215	0		
Auditorium/Exhibition	67,795	1.2	81,355	310	25,219,909		
Gymnasiums	0	1.2	0	225	0		
Student Academic Suj	0	1.5	0	185	0		
Offices	5,360	1.5	8,039	284	2,283,211		
Campus Support Serv	0	1.4	0	276	0		
Totals	113,155		149,394		43,808,120		

*Apply Unit Cost to total GSF based on primary space type

Remodeling/Renovation

Total Construction - New & Rem./Renov. 43,808,120

Space Detail for Remodeling Projects

BEFORE		AFTER	
Space Type	Net Area (NASF)	Space Type	Net Area (NASF)
Total	0	Total	0

SCHEDULE OF PROJECT COMPONENTS — ESTIMATED COSTS

Basic Construction Cost	Funded to Date	2016-17	2017-18	2018-19	2019-20	2020-21	Funded & In CIP
1. a.Construction Cost (from above)			43,808,120				43,808,120
Add'l/Extraordinary Const. Costs							-
b.Environmental Impacts/Mitigation							-
c.Site Preparation			300,000				300,000
d.Landscape/Irrigaiton			250,000				250,000
e.Plaza/Walks							-
f.Roadway Improvements							-
g.Parking ___ spaces							-
h.Telecommunication			350,000				350,000
i.Electrical Service							-
j.Water Distribution							-
k.Sanitary Sewer System							-
l.Chilled Water System							-
m.Storm Water System							-
n.Energy Efficient Equipment							-
Total Construction Costs	0	0	44,708,120	0	0	0	44,708,120
2. Other Project Costs							
a.Land/existing facility acquisition							-
b.Professional Fees		4,778,778	788,181	117,516			5,684,475
c.Fire Marshall Fees		117,516					117,516
d.Inspection Services		376,795					376,795
e.Insurance Consultant		26,194					26,194
f.Surveys & Tests		100,000					100,000
g.Permit/Impact/Environmental Fees		123,980					123,980
h.Artwork		-	100,000				100,000
i.Moveable Furnishings & Equipment				5,875,812			5,875,812
j.Project Contingency		470,065	2,350,325				2,820,390
Total - Other Project Costs	-	5,993,328	3,238,506	5,993,328	-	-	15,225,162
ALL COSTS 1+2	0	5,993,328	47,946,626	5,993,328	0	0	59,933,282

Appropriations to Date Source	Fiscal Year	Amount
PECO		0
TOTAL		-

Project Costs Beyond CIP Period Source	Fiscal Year	Amount
TOTAL		0

Total Project In CIP & Beyond: 59,933,282

AGENCY University of Central Florida
BUDGET ENTITY SUS
PROJECT TITLE Millican Hall Building Renovation

AGENCY PRIORITY 11
DATE BLDG PROGRAM

APPROVED

PURPOSE, NEED, SCOPE, RELATIONSHIP OF PROJECT TO AGENCY OBJECTIVES

The Millican Hall administration building was built in 1969-70, and is one of the first two buildings on campus. This 87,742 GSF facility houses the Office of the President, Provost, university Vice Presidents, Academic Affairs, University Registrar, Student Development and Enrollment Services, and Administration and Finance, among others.

The university contracted with the ISES Corporation to conduct a Facilities Condition Assessment (FCA) to benchmark the condition of its E&G facilities. The Millican Hall renovation will address both critical and non-critical issues identified in the FCA. These issues encompass deficiencies such as indoor air quality, fire alarm modernization, potable water and plumbing distribution systems, electrical service, asbestos, HVAC modernization, lighting upgrades, building automation, ADA compliance, building envelope repairs, interior finishes, flooring, egress, exterior lighting, and utility service entrance upgrades. Information technology upgrades are also required in order to meet current and future requirements. This renovation will require commissioning to a LEED Silver level in order to meet the university's sustainability requirements.

SUSTAINABILITY AND LEED

The University of Central Florida is committed to sustainability and continued reduction of energy consumption in new construction projects. As energy costs and demands continue to escalate, achieving higher levels of efficiency has become increasingly important to the university's mission. Since 2007, UCF has mandated LEED certification, with most projects achieving Gold. UCF requires specific individual LEED credits that contribute to UCF's core principles including energy efficiency, water conservation, and indoor air quality for all projects. The Department of Utilities & Energy Services provides oversight for all new construction and major renovation projects, and expedites the commissioning process with the latest industry standards to ensure that the university's sustainability goals are met and design parameters achieved.

Classroom/Office

The space classification is predominately classroom or office type, with laboratory or research type minimized. The project will achieve Gold LEED certification from the U.S. Green Building Council (USGBC). Energy consumption will be at least 30% less than the energy standards cited in ASHRAE 90.1-2007, and water consumption will be at least 30% less than that of a comparable building. The project will utilize the district cooling loop for space cooling needs and look at alternative measures to provide dehumidification with the classifications of classroom and offices and related energy use. All heating and reheating will be hydronic.

EDUCATIONAL PLANT SURVEY

The Educational Plant Survey was conducted and approved in February, 2011. Recommendation No. 2.5, Millican Hall Building Renovation.

STATE UNIVERSITY SYSTEM
CIP-3 SHORT TERM PROJECT EXPLANATION

Page ___of ___

GEOGRAPHIC LOCATION: University of Central Florida, Orlando
COUNTY: Orange
PROJECT DESCRIPTION/TITLE: Millican Hall Renovation
PROJECT BR No. (if assigned):

Facility/Space Type	Net Area (NASF)	Net to Gross Conversion	Gross Area (GSF)	Unit Cost (Cost/GSF)*	Construction Cost	Assumed Bid Date	Occupancy Date
Classrooms		1.5	0	274	0		
Teaching Labs		1.5	0	268	0		
Research Labs		1.5	0	375	0		
Study		1.4	0	286	0		
Instructional Media		1.5	0	215	0		
Auditorium/Exhibition		1.2	0	310	0		
Gymnasiums		1.2	0	225	0		
Student Academic Support		1.5	0	185	0		
Offices		1.5	0	284	0		
Campus Support Services		1.4	0	276	0		
Totals	0		0		0		

*Apply Unit Cost to total GSF based on primary space type

Remodeling/Renovation
86783 | 87752

Total Construction - New & Rem./Renov. 8,512,443

Space Detail for Remodeling Projects

BEFORE		AFTER	
Space Type	Net Area (NASF)	Space Type	Net Area (NASF)
Offices	87,752	Offices	87,752
Total	87,752	Total	87,752

SCHEDULE OF PROJECT COMPONENTS — ESTIMATED COSTS

Basic Construction Cost	Funded to Date	2016-17	2017-18	2018-19	2019-2020	2020-2021	Funded & In CIP
1. a.Construction Cost (from above)				8,512,443			8,512,443
Add'l/Extraordinary Const. Costs							-
b.Environmental Impacts/Mitigation							-
c.Site Preparation				192,741			192,741
d.Landscape/Irrigaiton				200,000			200,000
e.Plaza/Walks							-
f.Roadway Improvements							-
g.Parking ___ spaces							-
h.Telecommunication				150,000			150,000
i.Electrical Service							-
j.Water Distribution							-
k.Sanitary Sewer System							-
l.Chilled Water System							-
m.Storm Water System							-
n.Energy Efficient Equipment							-
Total Construction Costs	0	0	0	9,055,184	0	0	9,055,184
2. Other Project Costs							
a.Land/existing facility acquisition							-
b.Professional Fees			798,263	192,741	24,093		1,015,097
c.Fire Marshall Fees			24,093				24,093
d.Inspection Services			156,060				156,060
e.Insurance Consultant			5,017				5,017
f.Surveys & Tests			45,000				45,000
g.Permit/Impact/Environmental Fees			65,870				65,870
h.Artwork				100,000			100,000
i.Moveable Furnishings & Equipment					1,204,629		1,204,629
j.Project Contingency			134,419	481,851			616,270
Total - Other Project Costs	-	-	1,228,722	774,592	1,228,722	-	3,232,036
ALL COSTS 1+2	0	0	1,228,722	9,829,776	1,228,722	0	12,287,221

Appropriations to Date Source	Fiscal Year	Amount	Project Costs Beyond CIP Period Source	Fiscal Year	Amount	Total Project In CIP & Beyond
PECO	2016-17	0				12,287,220
TOTAL		-	TOTAL		0	12,287,221

AGENCY University of Central Florida
BUDGET ENTITY SUS
PROJECT TITLE Business Administration Renovation

AGENCY PRIORITY 12
DATE BLDG PROGRAM
APPROVED

PURPOSE, NEED, SCOPE, RELATIONSHIP OF PROJECT TO AGENCY OBJECTIVES

The College of Business Administration (CBA) offers degrees at the bachelor's, master's, doctoral and executive levels. All programs, including the Kenneth G. Dixon School of Accounting, are accredited by The Association to Advance Collegiate Schools of Business (AACSB International). Only 5% of the world's 13,000 business programs have achieved such distinction through rigorous standards of achievement. AACSB-accredited schools are globally recognized for their outstanding mission, faculty contributions, operations and more. Degrees from such schools are constantly increasing in value, giving students a competitive edge.

Business Administration, a STEM facility, houses five academic units: the School of Accounting and the Departments of Economics, Finance, Management, and Marketing. The College of Business Administration serves 7,765 undergraduate and 721 graduate students. Technology plays an integral role in the curriculum through state-of-the-art computer labs, tech support, and multi-media classrooms, and students graduate with the technical knowledge and entrepreneurial skills necessary to compete in today's global marketplace. The College's core business curriculum is extremely sound, and the faculty deliver excellence and opportunity to the students. However, the aging facility must also support the College's mission and vision. In order to give future students a competitive edge, the existing building must be renovated as the world of business is changing the way students learn and receive information. The renovation will produce a state-of-the-art educational facility that cultivates a learning environment promoting collaboration, engagement, risk taking and data-driven decision making.

The university contracted with the ISES Corporation to conduct a Facilities Condition Assessment (FCA) to benchmark the condition of its E&G facilities. The Business Administration I renovation will address both critical and non-critical issues identified in the FCA. These issues encompass deficiencies such as indoor air quality, fire alarm modernization, potable water and plumbing distribution systems, electrical service, asbestos, HVAC modernization, lighting upgrades, building automation, ADA compliance, building envelope repairs, interior finishes, flooring, egress, exterior lighting, and utility service entrance upgrades. Information technology upgrades are also required in order to meet current and future technology requirements.

Space utilization exceeds the current statutory requirement of 60% student stations occupied at a minimum of 40 hours per week. Where classrooms are concerned, the UCF main campus already is operating "at or above capacity." Based on the 2011 educational plant survey analysis for space needs, the university has a shortfall of classroom space. The university has been

forced over the past several years to rent temporary facilities, both on and off campus, for

classrooms and other purposes. UCF students are also taking summer classes and online classes in order to meet graduation requirements.

SUSTAINABILITY AND LEED

The University of Central Florida is committed to sustainability and continued reduction of energy consumption in new construction projects. As energy costs and demands continue to escalate, achieving higher levels of efficiency has become increasingly important to the university's mission. Since 2007, UCF has mandated LEED certification, with most projects achieving Gold. UCF requires specific individual LEED credits that contribute to UCF's core principles including energy efficiency, water conservation, and indoor air quality for all projects. The Department of Utilities & Energy Services provides oversight for all new construction and major renovation projects, and expedites the commissioning process with the latest industry standards to ensure that the university's sustainability goals are met and design parameters achieved.

Classroom/Office

The space classification is predominately classroom or office type, with laboratory or research type minimized. The project will achieve Gold LEED certification from the U.S. Green Building Council (USGBC). Energy consumption will be at least 30% less than the energy standards cited in ASHRAE 90.1-2007, and water consumption will be at least 30% less than that of a comparable building. The project will utilize the district cooling loop for space cooling needs and look at alternative measures to provide dehumidification with the classifications of classroom and offices and related energy use. All heating and reheating will be hydronic.

EDUCATIONAL PLANT SURVEY

The Educational Plant Survey was conducted and approved in February, 2011. See recommendation No. 2.3, Business Administration Building Renovation.

STATE UNIVERSITY SYSTEM
CIP-3 SHORT TERM PROJECT EXPLANATION

GEOGRAPHIC LOCATION: University of Central Florida, Orlando
COUNTY: Orange
PROJECT DESCRIPTION/TITLE: Business Administration Renovation
PROJECT BR No. (if assigned):___

Facility/Space Type	Net Area (NASF)	Net to Gross Conversion	Gross Area (GSF)	Unit Cost (Cost/GSF)*	Construction Cost	Assumed Bid Date	Occupancy Date
Classrooms		1.5	0	274	0		
Teaching Labs		1.5	0	268	0		
Research Labs		1.5	0	375	0		
Study		1.4	0	286	0		
Instructional Media		1.5	0	215	0		
Auditorium/Exhibition		1.2	0	310	0		
Gymnasiums		1.2	0	225	0		
Student Academic Support		1.5	0	185	0		
Offices		1.5	0	284	0		
Campus Support Services		1.4	0	276	0		
Totals	0		0		0		

*Apply Unit Cost to total GSF based on primary space type

Space Detail for Remodeling Projects

BEFORE		AFTER	
Space Type	Net Area (NASF)	Space Type	Net Area (NASF)
Offices	24,978	Offices	24,978
Total	24,978	Total	24,978

Remodeling/Renovation

118624	121074	7938283

Total Construction - New & Rem./Renov. 7,938,283

SCHEDULE OF PROJECT COMPONENTS — ESTIMATED COSTS

Basic Construction Cost	Funded to Date	2016-17	2017-18	2018-19	2019-20	2020-21	Funded & In CIP
1. a.Construction Cost (from above)				7,938,283			7,938,283
Add'l/Extraordinary Const. Costs							-
b.Environmental Impacts/Mitigation							-
c.Site Preparation				100,000			100,000
d.Landscape/Irrigaiton			-				-
e.Plaza/Walks							-
f.Roadway Improvements							-
g.Parking ___ spaces							-
h.Telecommunication			-				-
i.Electrical Service							-
j.Water Distribution							-
k.Sanitary Sewer System							-
l.Chilled Water System							-
m.Storm Water System							-
n.Energy Efficient Equipment							-
Total Construction Costs	0	0	0	8,038,283	0	0	8,038,283
2. Other Project Costs							
a.Land/existing facility acquisition							-
b.Professional Fees			433,922	424,991	10,275		869,188
c.Fire Marshall Fees			23,642				23,642
d.Inspection Services				124,473			124,473
e.Insurance Consultant			4,763				4,763
f.Surveys & Tests			-				-
g.Permit/Impact/Environmental Fees			61,709				61,709
h.Artwork			-				-
i.Moveable Furnishings & Equipment					513,761		513,761
j.Project Contingency				1,464,227			1,464,227
Total - Other Project Costs	-	-	524,036	2,013,691	524,036	-	3,061,763
ALL COSTS 1+2	0	0	524,036	10,051,974	524,036	0	11,100,046

Appropriations to Date Source	Fiscal Year	Amount
PECO	2012-13	0
TOTAL		-

Project Costs Beyond CIP Period Source	Fiscal Year	Amount
TOTAL		0

Total Project In CIP & Beyond: 11,100,046

AGENCY University of Central Florida
BUDGET ENTITY SUS
PROJECT TITLE Chemistry Renovation

AGENCY PRIORITY 13
DATE BLDG PROGRAM APPROVED

PURPOSE, NEED, SCOPE, RELATIONSHIP OF PROJECT TO AGENCY OBJECTIVES

The College of Sciences is the largest college at UCF, and its Chemistry program is one of the major participants that represent the core of UCF's STEM initiative. The existing Chemistry Building was constructed in 1969 and is in "fair" condition.

The university contracted with the ISES Corporation to conduct a Facilities Condition Assessment (FCA) to benchmark the condition of its E&G facilities. The Chemistry renovation will address both critical and non-critical issues identified in the FCA. These issues encompass deficiencies such as indoor air quality, fire alarm modernization, potable water and plumbing distribution systems, electrical service, asbestos, HVAC modernization, lighting upgrades, building automation, ADA compliance, building envelope repairs, interior finishes, flooring, exterior lighting, and utility service entrance upgrades. Information technology upgrades are also required in order to meet current and future requirements. The most critical issue in this building is the teaching labs, as all supporting lab building systems have become inadequate and require modernization to meet current safety regulations, codes and egress requirements.

Space utilization exceeds the current statutory requirement of 60% of student stations occupied at a minimum of 40 hours per week. Where research labs, classrooms, and teaching labs are concerned, the UCF main campus already is operating "at or above capacity." Based on the 2011 educational plant survey analysis for space needs, the university has a shortfall of classroom space, research labs, and teaching labs. The university has been forced over the past several years to rent temporary research facilities both on and off campus.

Research and teaching labs are essential for thesis and dissertation work by students in disciplines with active graduate programs, especially at the doctoral level. The Chemistry Department has a doctoral program that provides exceptionally high-level training for students who subsequently enter outstanding industrial, academic, and post-doctoral positions. Many cases exist on campus where the same lab is used interchangeably for graduate coursework, thesis and/or dissertation work, and faculty research. The labs in the Chemistry Building are in poor condition but still must serve all of the functions noted.

SUSTAINABILITY AND LEED

The University of Central Florida is committed to sustainability and continued reduction of energy consumption in new construction projects. As energy costs and demands continue to escalate, achieving higher levels of efficiency has become increasingly important to the university's mission. Since 2007, UCF has mandated LEED certification, with most projects achieving Gold. UCF requires specific individual LEED credits that contribute to UCF's core principles including energy efficiency, water conservation, and indoor air quality for all projects. The

STATE UNIVERSITY SYSTEM
CIP-3 SHORT TERM PROJECT EXPLANATION

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GEOGRAPHIC LOCATION: University of Central Florida, Orlando
COUNTY: Orange
PROJECT DESCRIPTION/TITLE: Chemistry Renovation
PROJECT BR No. (if assigned):____

Facility/Space Type	Net Area (NASF)	Net to Gross Conversion	Gross Area (GSF)	Unit Cost (Cost/GSF)*	Construction Cost	Assumed Bid Date	Occupancy Date
Classrooms		1.5	0	274	0		
Teaching Labs		1.5	0	268	0		
Research Labs		1.5	0	375	0		
Study		1.4	0	286	0		
Instructional Media		1.5	0	215	0		
Auditorium/Exhibition		1.2	0	310	0		
Gymnasiums		1.2	0	225	0		
Student Academic Support		1.5	0	185	0		
Offices		1.5	0	284	0		
Campus Support Services		1.4	0	276	0		
Totals	0		0		0		
Remodeling/Renovation	43,265		49,073		8,288,776		
Total Construction - New & Rem./Renov.					8,288,776		

*Apply Unit Cost to total GSF based on primary space type

Space Detail for Remodeling Projects

BEFORE		AFTER	
Space Type	Net Area (NASF)	Space Type	Net Area (NASF)
Offices	10,049	Offices	10,049
Total	10,049	Total	10,049

SCHEOULE OF PROJECT COMPONENTS — ESTIMATED COSTS

Basic Construction Cost	Funded to Date	2016-17	2017-18	2018-19	2019-20	2020-21	Funded & In CIP
1. a.Construction Cost (from above)				8,288,776			8,288,776
Add'l/Extraordinary Const. Costs							-
b.Environmental Impacts/Mitigation							-
c.Site Preparation							-
d.Landscape/Irrigaiton				100,000			100,000
e.Plaza/Walks							-
f.Roadway Improvements							-
g.Parking ___ spaces							-
h.Telecommunication				-			-
i.Electrical Service							-
j.Water Distribution							-
k.Sanitary Sewer System							-
l.Chilled Water System							-
m.Storm Water System							-
n.Energy Efficient Equipment							-
Total Construction Costs	0	0	0	8,388,776	0	0	8,388,776
2. Other Project Costs							
a.Land/existing facility acquisition							-
b.Professional Fees			479,831	416,544	11,228		907,603
c.Fire Marshall Fees			24,673				24,673
d.Inspection Services				79,396			79,396
e.Insurance Consultant			4,973				4,973
f.Surveys & Tests			-				-
g.Permit/Impact/Environmental Fees			63,188				63,188
h.Artwork				-			-
i.Moveable Furnishings & Equipment					561,437		561,437
j.Project Contingency				1,527,395			1,527,395
Total - Other Project Costs	-	-	572,665	2,023,335	572,665	-	3,168,665
ALL COSTS 1+2	0	0	572,665	10,412,111	572,665	0	11,557,441

Appropriations to Date Source	Fiscal Year	Amount
PECO	2012-13	0
TOTAL		-

Project Costs Beyond CIP Period Source	Fiscal Year	Amount
TOTAL		0

Total Project In CIP & Beyond: 11,557,441

AGENCY University of Central Florida
BUDGET ENTITY SUS
PROJECT TITLE Facilities & Safety Complex Renovation

AGENCY PRIORITY 14
DATE BLDG PROGRAM APPROVED

PURPOSE, NEED, SCOPE, RELATIONSHIP OF PROJECT TO AGENCY OBJECTIVES

The Facilities and Safety Complex was constructed over a number of years, with the first building completed in 1969, and is approximately 103,286 gross square feet (GSF). The complex consists of five buildings: A) offices/shops; B) Fleet Maintenance, Landscape, and Locksmith Shop; C) Landscape; D) Housekeeping and Utilities & Energy Services; and E) Warehouse.

The university contracted with the ISES Corporation to conduct a Facilities Condition Assessment (FCA) to benchmark the condition of its E&G facilities. The Facilities and Safety Complex renovation will address both critical and non-critical issues identified in the FCA. These issues encompass deficiencies such as potable water and plumbing distribution systems, electrical service, HVAC modernization, lighting upgrades, ADA compliance, building envelope repairs, interior finishes, flooring, egress, exterior lighting and utility service entrance upgrades. The complex is manned 24/7, as it is integral to operations for all natural disaster mitigation. It houses the majority of all operational equipment, and does not provide adequate space for a university that ranks 2nd largest in the nation. Information technology upgrades are also required in order to meet current and future requirements. Due to the logistical importance of this facility, security requirements identified by the Department of Homeland Security are lacking and require immediate attention. Failure to provide current and functional facilities at the core of the university's operational needs will degrade current systems even further.

SUSTAINABILITY AND LEED

The University of Central Florida is committed to sustainability and continued reduction of energy consumption in new construction projects. As energy costs and demands continue to escalate, achieving higher levels of efficiency has become increasingly important to the university's mission. Since 2007, UCF has mandated LEED certification, with most projects achieving Gold. UCF requires specific individual LEED credits that contribute to UCF's core principles including energy efficiency, water conservation, and indoor air quality for all projects. The Department of Utilities & Energy Services provides oversight for all new construction and major renovation projects, and expedites the commissioning process with the latest industry standards to ensure that the university's sustainability goals are met and design parameters achieved.

Classroom/Office

The space classification is predominately classroom or office type, with laboratory or research type minimized. The project will achieve Gold LEED certification from the U.S. Green Building Council (USGBC). Energy consumption will be at least 30% less than the energy standards cited in ASHRAE 90.1-2007, and water consumption will be at least 30% less than that of a comparable building. The project will utilize the district cooling loop for space cooling needs and look at

alternative measures to provide dehumidification with the classifications of classroom and offices and related energy use. All heating and reheating will be hydronic.

EDUCATIONAL PLANT SURVEY

The Educational Plant Survey was conducted and approved in February, 2011. See recommendation No. 2.7, Facilities & Safety Complex Renovation.

STATE UNIVERSITY SYSTEM
CIP-3 SHORT TERM PROJECT EXPLANATION

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GEOGRAPHIC LOCATION: University of Central Florida, Orlando
COUNTY: Orange
PROJECT DESCRIPTION/TITLE: Facilities and Safety Complex Ren.
PROJECT BR No. (if assigned):

Facility/Space Type	Net Area (NASF)	Net to Gross Conversion	Gross Area (GSF)	Unit Cost (Cost/GSF)*	Construction Cost	Assumed Bid Date	Occupancy Date
Classrooms		1.5	0	274	0		
Teaching Labs		1.5	0	268	0		
Research Labs		1.5	0	375	0		
Study		1.4	0	286	0		
Instructional Media		1.5	0	215	0		
Auditorium/Exhibition		1.2	0	310	0		
Gymnasiums		1.2	0	225	0		
Student Academic Support		1.5	0	185	0		
Offices		1.5	0	284	0		
Campus Support Services		1.4	0	276	0		
Totals	0		0		0		
*Apply Unit Cost to total GSF based on primary space type							
Remodeling/Renovation			103286		3819283		
Total Construction - New & Rem./Renov.					3,819,283		

Space Detail for Remodeling Projects

BEFORE		AFTER	
Space Type	Net Area (NASF)	Space Type	Net Area (NASF)
Offices	17,039	Offices	17,039
Total	17,039	Total	17,039

SCHEDULE OF PROJECT COMPONENTS — ESTIMATED COSTS

Basic Construction Cost	Funded to Date	2015-16	2016-17	2017-18	2018-19	2019-2020	Funded & In CIP
1. a.Construction Cost (from above)					3,819,283		3,819,283
Add'l/Extraordinary Const. Costs							-
b.Environmental Impacts/Mitigation							-
c.Site Preparation							-
d.Landscape/Irrigaiton				-			-
e.Plaza/Walks							-
f.Roadway Improvements							-
g.Parking ___ spaces							-
h.Telecommunication				-			-
i.Electrical Service							-
j.Water Distribution							-
k.Sanitary Sewer System							-
l.Chilled Water System							-
m.Storm Water System							-
n.Energy Efficient Equipment							-
Total Construction Costs	0	0	0	0	3,819,283	0	3,819,283
2. Other Project Costs							
a.Land/existing facility acquisition							-
b.Professional Fees					444,906		444,906
c.Fire Marshall Fees					11,233		11,233
d.Inspection Services					-		-
e.Insurance Consultant					2,292		2,292
f.Surveys & Tests					-		-
g.Permit/Impact/Environmental Fees					43,038		43,038
h.Artwork					-		-
i.Moveable Furnishings & Equipment					313,484		313,484
j.Project Contingency					694,996		694,996
Total - Other Project Costs	-	-	-		1,509,949	-	1,509,949
ALL COSTS 1+2	0	0	0	0	5,329,232	0	5,329,232

Appropriations to Date Source	Fiscal Year	Amount	Project Costs Beyond CIP Period Source	Fiscal Year	Amount	Total Project In CIP & Beyond
PECO	2012-13	0				5,329,232
TOTAL		-	TOTAL		0	5,329,232

AGENCY University of Central Florida
BUDGET ENTITY SUS
PROJECT TITLE Visual Arts Building Renovation and Expansion

AGENCY PRIORITY 15
DATE BLDG PROGRAM
APPROVED

PURPOSE, NEED, SCOPE, RELATIONSHIP OF PROJECT TO AGENCY OBJECTIVES

The Visual Arts Building was constructed in 1991 and is in need of renovation. An expansion has also been proposed to support its educational programs.

The university contracted with the ISES Corporation to conduct a Facilities Condition Assessment (FCA) to benchmark the condition of its E&G facilities. The Visual Arts renovation will address both critical and non-critical issues identified in the FCA. This renovation will require less than a complete remodel in that the utility services are adequate for the next 15 years. These issues encompass deficiencies such as indoor air quality, fire alarm modernization, elevator modernization, asbestos abatement and remediation, HVAC modernization and air filtration system for the ceramic lab, lighting upgrades, building automation, ADA compliance, building envelope repairs for window glazing, interior finishes, and flooring. Information technology upgrades are also required in order to meet current and future technology requirements. Interior finishes and art studios are inefficient and require modernization for lighting and air quality.

The current facility is not suitably sized or outfitted to house the School of Visual Arts and Design's studio arts activities or accommodate the high growth areas of digital media, film, and graphic design. This impedes curricular development, recruitment/retention, and learning outcomes. The expansion to the building for the visual arts will alleviate current impaction by providing: wider hallways with abundant seating, larger studios with ample northern light, dedicated studios for senior capstone projects, a cold-desk space for upper-division courses, flex spaces (project assembly, installations, digital projections, critiques, etc.), a spray booth, a media room, a library/study lounge, administrative and advising spaces, offices, conference rooms, a mail room, faculty offices and research labs/studios, two art galleries (one large, school-operated and one small, student-run) gift shop, and increased storage for supplies and projects. Depending on the size of the new facility and school-wide enrollment projections/goals for the school, some or all of the film area (currently housed in the Nicholson School of Communication) may occupy the expansion and consolidate in VAB with digital media (currently in VAB and off-campus leased space in the Orlando Tech Center 500) and graphic design.

If the project is not approved, parts of the building will be rendered unusable over time due to unresolved environmental health and safety issues associated with deferred maintenance.

SUSTAINABILITY AND LEED

The University of Central Florida is committed to sustainability and continued reduction of energy consumption in new construction projects. As energy costs and demands continue to escalate, achieving higher levels of efficiency has become increasingly important to the university's mission. Since 2007, UCF has mandated LEED certification, with most projects achieving

Gold. UCF requires specific individual LEED credits that contribute to UCF's core principles including energy efficiency, water conservation, and indoor air quality for all projects. The Department of Utilities & Energy Services provides oversight for all new construction and major renovation projects, and expedites the commissioning process with the latest industry standards to ensure that the university's sustainability goals are met and design parameters achieved.

Classroom/Office

The space classification is predominately classroom or office type, with laboratory or research type minimized. The project will achieve Gold LEED certification from the U.S. Green Building Council (USGBC). Energy consumption will be at least 30% less than the energy standards cited in ASHRAE 90.1-2007, and water consumption will be at least 30% less than that of a comparable building. The project will utilize the district cooling loop for space cooling needs and look at alternative measures to provide dehumidification with the classifications of classroom and offices and related energy use. All heating and reheating will be hydronic.

EDUCATIONAL PLANT SURVEY

The Educational Plant Survey was conducted and approved in February, 2011. See recommendation No. 2.8, Visual Arts Building Renovation.

STATE UNIVERSITY SYSTEM
CIP-3 SHORT TERM PROJECT EXPLANATION

GEOGRAPHIC LOCATION: University of Central Florida, Orlando
COUNTY: Orange
PROJECT DESCRIPTION/TITLE: Visual Arts Ren. & Expansion
PROJECT BR No. (if assigned):

Facility/Space Type	Net Area (NASF)	Net to Gross Conversion	Gross Area (GSF)	Unit Cost (Cost/GSF)*	Construction Cost	Assumed Bid Date	Occupancy Date
Classrooms		1.5	0	274	0		
Teaching Labs	18,500	1.5	27,750	268	7,437,000		
Research Labs		1.5	0	375	0		
Study	8,000	1.4	11,200	286	3,203,200		
Instructional Media		1.5	0	215	0		
Auditorium/Exhibition	9,500	1.2	11,400	310	3,534,000		
Gymnasiums		1.2	0	225	0		
Student Academic Su	0	1.5	0	185	0		
Offices	7,000	1.5	10,500	284	2,982,000		
Campus Support Services		1.4	0	276	0		
Totals	43,000		60,850		17,156,200		
*Apply Unit Cost to total GSF based on primary space type							
Remodeling/Renovation					6,426,853		
Total Construction - New & Rem./Renov.					23,583,053		

Space Detail for Remodeling Projects

BEFORE		AFTER	
Space Type	Net Area (NASF)	Space Type	Net Area (NASF)
Offices	16,575	Offices	16,575
Total	16,575	Total	16,575

SCHEDULE OF PROJECT COMPONENTS — ESTIMATED COSTS

Basic Construction Cost	Funded to Date	2016-17	2017-18	2018-19	2019-20	2020-21	Funded & In CIP
1. a.Construction Cost (from above)					23,583,053		23,583,053
Add'l/Extraordinary Const. Costs							-
b.Environmental Impacts/Mitigation							-
c.Site Preparation							-
d.Landscape/Irrigaiton					250,000		250,000
e.Plaza/Walks							-
f.Roadway Improvements							-
g.Parking ___ spaces							-
h.Telecommunication					350,000		350,000
i.Electrical Service							-
j.Water Distribution							-
k.Sanitary Sewer System							-
l.Chilled Water System							-
m.Storm Water System							-
n.Energy Efficient Equipment							-
Total Construction Costs	0	0	0	0	24,183,053	0	24,183,053
2. Other Project Costs							
a.Land/existing facility acquisition							-
b.Professional Fees				2,461,826	28,147	62,400	2,552,373
c.Fire Marshall Fees				62,400			49,945
d.Inspection Services				256,184			284,312
e.Insurance Consultant				13,725			10,773
f.Surveys & Tests				45,000			45,000
g.Permit/Impact/Environmental Fees				93,665			98,785
h.Artwork				-			100,000
i.Moveable Furnishings & Equipment						3,120,000	3,120,000
j.Project Contingency				249,600	1,248,000		1,199,687
Total - Other Project Costs	-	-	-	3,182,400	1,276,147	3,182,400	7,460,875
ALL COSTS 1+2	0	0	0	3,182,400	25,459,200	3,182,400	31,824,000

Appropriations to Oate Source	Fiscal Year	Amount	Project Costs Beyond CIP Period Source	Fiscal Year	Amount	Total Project In CIP & Beyond
		0				
TOTAL		-	TOTAL		0	31,824,000

AGENCY University of Central Florida
BUDGET ENTITY SUS
PROJECT TITLE Multi-Purpose Research and Education Building

AGENCY PRIORITY 16
DATE BLDG PROGRAM
APPROVED

PURPOSE, NEED, SCOPE, RELATIONSHIP OF PROJECT TO AGENCY OBJECTIVES

The Multi-Purpose Research and Education Building must be a state-of-the-art facility, capable of supporting university research and administrative functions. It will be a shared-space facility, providing general research and office space with multimedia capabilities of the highest available technological quality. The facility will house a variety of valuable services for the academic community, while also serving as a temporary space for departments while their buildings are being renovated. Extensions of campus utilities and roadways are being requested separately to meet the needs of this and other campus construction projects.

Space utilization exceeds the current statutory requirement of 60%. Where research labs, classrooms, and teaching labs are concerned, the UCF main campus is already operating "at or above capacity." Based on the 2011 Educational Plant Survey, the university is at a deficit for classroom space and research and teaching labs, and requires this new building to meet current and growing demands. The university has been forced over the past several years to rent temporary facilities, both on- and off-campus.

Research labs are essential for thesis and dissertation work by students in disciplines with active graduate programs, especially at the doctoral level. Many cases exist on campus where the same labs are used for graduate coursework, thesis and/or dissertation work, and faculty research.

SUSTAINABILITY AND LEED

The University of Central Florida is committed to sustainability and continued reduction of energy consumption in new construction projects. As energy costs and demands continue to escalate, achieving higher levels of efficiency has become increasingly important to the university's mission. Since 2007, UCF has mandated LEED certification, with most projects achieving Gold. UCF requires specific individual LEED credits that contribute to UCF's core principles including energy efficiency, water conservation, and indoor air quality for all projects. The Department of Utilities & Energy Services provides oversight for all new construction and major renovation projects, and expedites the commissioning process with the latest industry standards to ensure that the university's sustainability goals are met and design parameters achieved.

Classroom/Office

The space classification is predominately classroom or office type, with laboratory or research type minimized. The project will achieve Gold LEED certification from the U.S. Green Building Council (USGBC). Energy consumption will be at least 30% less than the energy standards cited in ASHRAE 90.1-2007, and water consumption will be at least 30% less than that of a comparable building. The project will utilize the district cooling loop for space cooling needs and look at

alternative measures to provide dehumidification with the classifications of classroom and offices and related energy use. All heating and reheating will be hydronic.

EDUCATIONAL PLANT SURVEY

The Educational Plant Survey was conducted and approved in February, 2011. See recommendation No. 3.3, Multi-Purpose Research and Education Building.

STATE UNIVERSITY SYSTEM
CIP-3 SHORT TERM PROJECT EXPLANATION

GEOGRAPHIC LOCATION: University of Central Florida, Orlando
COUNTY: Orange
PROJECT DESCRIPTION/TITLE: Multi-purpose Research and Education
PROJECT BR No. (if assigned):___

Facility/Space Type	Net Area (NASF)	Net to Gross Conversion	Gross Area (GSF)	Unit Cost (Cost/GSF)*	Construction Cost	Assumed Bid Date	Occupancy Date
Classrooms	20,117	1.5	30,176	274	8,268,281		
Teaching Labs	5,500	1.5	8,250	268	2,211,000		
Research Labs	4,000	1.5	6,000	375	2,250,000		
Study		1.4	0	286	0		
Instructional Media		1.5	0	215	0		
Auditorium/Exhibition		1.2	0	310	0		
Gymnasiums		1.2	0	225	0		
Offices	21,000	1.5	31,500	284	8,946,000		
Campus Support Services		1.4	0	276	0		
Totals	50,617		75,926		21,675,281		

*Apply Unit Cost to total GSF based on primary space type

Remodeling/Renovation

Total Construction - New & Rem./Renov. 21,675,281

Space Detail for Remodeling Projects

BEFORE		AFTER	
Space Type	Net Area (NASF)	Space Type	Net Area (NASF)
Offices	89,555	Offices	89,555
Total	89555	Total	89555

SCHEDULE OF PROJECT COMPONENTS — ESTIMATED COSTS

Basic Construction Cost	Funded to Date	2016-17	2017-18	2018-19	2019-20	2020-21	Funded & In CIP
1. a.Construction Cost (from above)					21,675,281		21,675,281
Add'l/Extraordinary Const. Costs							
b.Environmental Impacts/Mitigation							-
c.Site Preparation					250,176		250,176
d.Landscape/Irrigaiton					200,000		200,000
e.Plaza/Walks							-
f.Roadway Improvements							-
g.Parking ___ spaces							-
h.Telecommunication					194,543		194,543
i.Electrical Service							-
j.Water Distribution							-
k.Sanitary Sewer System							-
l.Chilled Water System							-
m.Storm Water System							-
n.Energy Efficient Equipment							-
Total Construction Costs	0	0	0	0	22,320,001	0	22,320,001
2. Other Project Costs							
a.Land/existing facility acquisition							-
b.Professional Fees				2,185,733		57,807	2,243,540
c.Fire Marshall Fees				55,584			55,584
d.Inspection Services				316,578			316,578
e.Insurance Consultant				11,996			11,996
f.Surveys & Tests				45,000			45,000
g.Permit/Impact/Environmental Fees				109,938			109,938
h.Artwork					100,000		100,000
i.Moveable Furnishings & Equipment						2,890,357	2,890,357
j.Project Contingency				223,335	1,165,310		1,388,645
Total - Other Project Costs	-	-	-	2,948,164	1,265,310	2,948,164	7,161,638
ALL COSTS 1+2	0	0	0	2,948,164	23,585,311	2,948,164	29,481,638

Appropriations to Date Source	Fiscal Year	Amount
PECO		0
TOTAL		-

Project Costs Beyond CIP Period Source	Fiscal Year	Amount
TOTAL		0

Total Project In CIP & Beyond: 29,481,638

AGENCY University of Central Florida
BUDGET ENTITY SUS
PROJECT TITLE College of Nursing

AGENCY PRIORITY 17
DATE BLDG PROGRAM APPROVED

PURPOSE, NEED, SCOPE, RELATIONSHIP OF PROJECT TO AGENCY OBJECTIVES

Since 2003, the College of Nursing has grown 141% in size, due in part to the addition of the following academic offerings: an accelerated baccalaureate program, two doctoral programs (PhD and DNP), a master's program, and two regional sites that require audiovisual connectivity. The program's total headcount has grown from 1,199 in 2003 to 2,858 in 2014. Prior to 2003, there was only one nursing skills laboratory, which was inadequate at best. In 2004, a small conference room was converted to additional laboratory space to finally provide for graduate students. By 2010, the College of Nursing (CON) had outgrown its space and leased a building in the Central Florida Research Park to provide better teaching and learning facilities for its faculty and students. The total laboratory and classroom space available to teach all degree and certificate programs remains inadequate, and students frequently must practice their skills in the hallways and lunchrooms.

In order to provide the best educational experience for student nurses and doctors, the College of Nursing will be located in close proximity to the College of Medicine at Lake Nona. Utilizing shared facilities, nursing and medical school students can collaborate to ensure the best medical outcome and patient experience. A new CON building will provide adequate laboratory, classrooms, simulation, computer, and conference spaces, supporting educational and research needs as well as inter-professional education. While CON currently leases space in the Central Florida Research Park, suitable space is not available within a reasonable distance of the Medical City at Lake Nona.

A College of Nursing building will meet the needs of the student population, provide the highest quality educational and research programs, and allow its programs to expand and accommodate the ever-increasing needs of the community and the state of Florida. The proposed facility will also support expansion of the research programs and facilitate increased external funding for research to support doctoral students' and faculty members' research efforts.

Delays in this project will seriously limit any growth in terms of new faculty hires, new programs, the ability to teach using state-of-the art simulation, and the ability to meet the increasing demands for coursework and research. A Student Health facility will be co-located in the College of Nursing and staffed by nurse practitioners to provide clinical care and mentor DNP students.

The Florida Center for Nursing predicts that there will be a shortage of 50,000 nurses by 2025. UCF needs to prepare nurses at all levels to meet these shortages, and clinical agencies are increasingly making preferential hires of nurses with baccalaureate and higher degrees.

SUSTAINABILITY AND LEED

The University of Central Florida is committed to sustainability and continued reduction of energy consumption in new construction projects. As energy costs and demands continue to escalate, achieving higher levels of efficiency has become increasingly important to the university's mission. Since 2007, UCF has mandated LEED certification, with most projects achieving Gold. UCF requires specific individual LEED credits that contribute to UCF's core principles including energy efficiency, water conservation, and indoor air quality for all projects. The Department of Utilities & Energy Services provides oversight for all new construction and major renovation projects, and expedites the commissioning process with the latest industry standards to ensure that the university's sustainability goals are met and design parameters achieved.

Classroom/Office

The space classification is predominately classroom or office type, with laboratory or research type minimized. The project will achieve Gold LEED certification from the U.S. Green Building Council (USGBC). Energy consumption will be at least 30% less than the energy standards cited in ASHRAE 90.1-2007, and water consumption will be at least 30% less than that of a comparable building. The project will utilize the district cooling loop for space cooling needs and look at alternative measures to provide dehumidification with the classifications of classroom and offices and related energy use. All heating and reheating will be hydronic.

Research/Laboratory

The space classification is minimally laboratory type, with office type maximized. Laboratories will have continuous variable air flow valves with air flow reset capabilities. Domestic and laboratory hot water needs shall be provided primarily by solar thermal energy.

EDUCATIONAL PLANT SURVEY

The Educational Plant Survey has not been addressed for this project. As the planning year approaches, this project will be addressed.

STATE UNIVERSITY SYSTEM
CIP-3 SHORT TERM PROJECT EXPLANATION

GEOGRAPHIC LOCATION: University of Central Florida, Orlando
COUNTY: Orange
PROJECT DESCRIPTION/TITLE: College of Nursing
PROJECT BR No. (if assigned):

Facility/Space Type	Net Area (NASF)	Net to Gross Conversion	Gross Area (GSF)	Unit Cost (Cost/GSF)*	Construction Cost	Assumed Bid Date	Occupancy Date
Classrooms	26,980	1.5	40,470	274	11,088,780		
Teaching Labs	28,200	1.5	42,300	268	11,336,400		
Research Labs	800	1.5	1,200	361	433,200		
Study	2,840	1.4	3,976	286	1,137,136		
Instructional Media		1.5	0	213	0		
Auditorium/Exhibition	7,500	1.2	9,000	310	2,790,000		
Gymnasiums		1.2	0	225	0		
Offices	32,000	1.5	48,000	284	13,632,000		
Campus Support Serv	11,196	1.4	15,675	276	4,326,266		
Totals	109,516		160,621		44,743,782		

*Apply Unit Cost to total GSF based on primary space type

Space Detail for Remodeling Projects

BEFORE		AFTER	
Space Type	Net Area (NASF)	Space Type	Net Area (NASF)

Remodeling/Renovation

Total Construction - New & Rem./Renov. 44,743,782 Total 0 Total 0

SCHEDULE OF PROJECT COMPONENTS — ESTIMATED COSTS

Basic Construction Cost	Funded to Date	2016-17	2017-18	2018-19	2019-2020	2020-21	Funded & In CIP
1. a.Construction Cost (from above)					44,743,782		44,743,782
Add'l/Extraordinary Const. Costs							-
b.Environmental Impacts/Mitigation							-
c.Site Preparation					979,026		979,026
d.Landscape/Irrigaiton					200,000		200,000
e.Plaza/Walks							-
f.Roadway Improvements							-
g.Parking ___ spaces							-
h.Telecommunication					348,641		348,641
i.Electrical Service							-
j.Water Distribution							-
k.Sanitary Sewer System							-
l.Chilled Water System							-
m.Storm Water System							-
n.Energy Efficient Equipment							-
Total Construction Costs	0	0	0	0	46,271,449	0	46,271,449
2. Other Project Costs							
a.Land/existing facility acquisition							-
b.Professional Fees				3,722,379	-	117,052	3,839,431
c.Fire Marshall Fees				122,378			122,378
d.Inspection Services				509,515			509,515
e.Insurance Consultant				26,839			26,839
f.Surveys & Tests				45,000			45,000
g.Permit/Impact/Environmental Fees				123,725			123,725
h.Artwork					100,000		100,000
i.Moveable Furnishings & Equipment						5,852,620	5,852,620
j.Project Contingency				358,197	2,447,566		2,805,763
Total - Other Project Costs	-	-	-	4,908,033	2,547,566	5,969,672	13,425,271
ALL COSTS 1+2	0	0	0	4,908,033	48,819,015	5,969,672	59,696,721

Appropriations to Date Source	Fiscal Year	Amount
PECO	2012-13	0
TOTAL		-

Project Costs Beyond CIP Period Source	Fiscal Year	Amount
TOTAL		0

Total Project In CIP & Beyond: 59,696,721

AGENCY University of Central Florida
BUDGET ENTITY SUS
PROJECT TITLE Partnership IV

AGENCY PRIORITY 18
DATE BLDG PROGRAM APPROVED

PURPOSE, NEED, SCOPE, RELATIONSHIP OF PROJECT TO AGENCY OBJECTIVES

Partnership IV, when constructed in the Central Florida Research Park adjacent to the UCF campus, will enhance the UCF/Department of Defense (DoD) partnership in Modeling, Simulation &Training (MS&T). The Central Florida region's MS&T activities add $4.8 billion annually to Florida's Gross State Product, with nearly $8 billion in state sales activity. Our military partners currently occupy space in UCF Partnership Buildings I, II, and III, and lease other facilities within the Central Florida Research Park. Although DoD no longer has an Orlando military base presence, DoD budget cuts, sequestration, and any future rounds of Defense Base Realignment and Closure (BRAC) could readily reassign our MS&T military partners elsewhere in the country. BRAC actions would have a very negative economic effect on the Central Florida region and to the state due to loss of strategic national programs and the funding they receive.

Partnership IV creates classified laboratory space for both the military and UCF. This space will not only support the continued space sharing relationship between UCF and Research Park military commands, but also support advanced research and development (R&D), and R&D work to meet emerging missions (e.g., cyber defense training). This will ultimately lead to additional budget authority for our military commands, which, in turn, will create more high-wage jobs in the Central Florida Research Park. Partnership IV has direct employment implications for more than 27,000 Floridians in the Modeling, Simulation & Training (MS&T) sector, with an approximate average salary of $69,797. More than 1,000 companies and organizations are involved in the MS&T industry in Florida, creating more than 60,700 jobs (direct, indirect and induced) across the state.

The UCF Modeling and Simulation master's and doctoral programs benefit from partnerships with the military commands and other federal government organizations that are located in UCF Partnership buildings. The military places a heavy reliance on MS&T and other technologies provided by UCF to meet their training requirements. UCF's MS&T programs support and develop a workforce to meet future academic, military, and industrial requirements, and a vast array of companies in Florida recruit heavily from these advanced degree programs to fill their high-tech workforce needs.

SUSTAINABILITY AND LEED

The University of Central Florida is committed to sustainability and continued reduction of energy consumption in new construction projects. As energy costs and demands continue to escalate, achieving higher levels of efficiency has become increasingly important to the university's mission. Since 2007, UCF has mandated LEED certification, with most projects achieving Gold. UCF requires specific individual LEED credits that contribute to UCF's core principles including energy efficiency, water conservation, and indoor air quality for all projects. The Department of Utilities & Energy Services provides oversight for all new construction and major

renovation projects, and expedites the commissioning process with the latest industry standards to ensure that the university's sustainability goals are met and design parameters achieved.

Research/Laboratory

The space classification is predominately laboratory type, with office type minimized. The project will achieve LEED Gold certification with the U.S. Green Building Council (USGBC). Energy consumption will be at least 30% less than the energy standards cited in ASHRAE 90.1-2007, and water consumption will be at least 30% less than that of a comparable building. Laboratories will have continuous variable air flow valves with air flow reset capabilities. Domestic and laboratory hot water needs shall be provided primarily by solar thermal energy. The project will look at alternative measures to provide dehumidification with the classifications of lab spaces and related energy use, and all heating and reheating will be hydronic.

EDUCATIONAL PLANT SURVEY

The Educational Plant Survey has not been addressed for this project. As the planning year approaches, this project will be addressed.

STATE UNIVERSITY SYSTEM
CIP-3 SHORT TERM PROJECT EXPLANATION

Page ___of ___

GEOGRAPHIC LOCATION: University of Central Florida, Orlando
COUNTY: Orange
PROJECT OESCRIPTION/TITLE: Partnership IV
PROJECT BR No. (if assigned):

Facility/Space Type	Net Area (NASF)	Net to Gross Conversion	Gross Area (GSF)	Unit Cost (Cost/GSF)*	Construction Cost	Assumed Bid Date	Occupancy Date
Classrooms	5,000	1.5	7,500	195	1,462,500		
Teaching Labs		1.5	0	268	0		
Research Labs	34,787	1.5	52,181	375	19,567,688		
Study		1.4	0	286	0		
Instructional Media		1.5	0	215	0		
Auditorium/Exhibition		1.2	0	310	0		
Gymnasiums		1.2	0	225	0		
Offices	65,000	1.5	97,500	190	18,525,000		
Campus Support Services		1.4	0	276	0		
Totals	104,787		157,181		39,555,188		
*Apply Unit Cost to total GSF based on primary s			157,181				
Remodeling/Renovation							
Total Construction - New & Rem./Renov.					39,555,188		

Space Detail for Remodeling Projects

BEFORE		AFTER	
Space Type	Net Area (NASF)	Space Type	Net Area (NASF)
Total	0	Total	0

SCHEDULE OF PROJECT COMPONENTS — ESTIMATED COSTS

Basic Construction Cost	Funded to Date	2016-17	2017-18	2018-19	2019-20	2020-21	Funded & In CIP
1. a.Construction Cost (from above)	26,920,000	12635188					39,555,188
Add'l/Extraordinary Const. Costs							-
b.Environmental Impacts/Mitigation							-
c.Site Preparation		888,460					888,460
d.Landscape/Irrigaiton		1,666,200					1,666,200
e.Plaza/Walks							-
f.Roadway Improvements							-
g.Parking ___ spaces							-
h.Telecommunication		1,034,286					1,034,286
i.Electrical Service							-
j.Water Distribution							-
k.Sanitary Sewer System							-
l.Chilled Water System							-
m.Storm Water System							-
n.Energy Efficient Equipment							-
Total Construction Costs	26,920,000	16,224,134	0	0	0		43,144,134
2. Other Project Costs							
a.Land/existing facility acquisition	5,500,000						-
b.Professional Fees	1,673,455	1,232,866					1,232,866
c.Fire Marshall Fees	111,080						111,080
d.Inspection Services	426,658						426,658
e.Insurance Consultant	23,733						23,733
f.Surveys & Tests	45,000						45,000
g.Permi/Impact/Environmental Fees	220,074						220,074
h.Artwork		100,000					100,000
i.Moveable Furnishings & Equipment			5,554,000				5,554,000
j.Project Contingency		2,443,000	566,000				3,009,000
Total - Other Project Costs	8,000,000	3,775,866	6,120,000	-			10,722,411
ALL COSTS 1+2	34,920,000	20,000,000	6,120,000	0			61,040,000

Appropriations to Date Source	Fiscal Year	Amount
PECO	2014-15	8,000,000
R&ED	2015-16	20,000,000
TOTAL		28,000,000

Project Costs Beyond CIP Period Source	Fiscal Year	Amount
PECO		
TOTAL		

Total Project In CIP & Beyond: 61,040,000

AGENCY University of Central Florida

BUDGET ENTITY SUS

PROJECT TITLE UCF Downtown Combined Heat and Power Plant

AGENCY PRIORITY 21

DATE BLDG PROGRAM

APPROVED

PURPOSE, NEED, SCOPE, RELATIONSHIP OF PROJECT TO AGENCY OBJECTIVES

The University of Central Florida intends to build a campus in downtown Orlando that will ultimately enroll approximately 15,000 students at full buildout. The campus will provide new academic learning spaces and focus on the growing fields of digital media and communications, as well as public health and public affairs. Locating these programs in downtown Orlando in interactive, innovative new learning environments will provide increased experiential and internship opportunities for students in these fields, along with enhanced networking and research or collaborative academic partnerships with faculty and the professional community in downtown Orlando. Additionally, one-time investment in developing and constructing UCF Downtown facilities and related infrastructure is expected to generate $575 million in gross economic income and 4,070 jobs, providing $255 million in wages and salaries.[1]

UCF will need to construct a centralized on-campus Central Energy Plant (CEP) in order to produce electricity, chilled water, and hot water for the UCF Downtown campus, and distribute the utilities through an underground infrastructure. The CEP will provide UCF with the ability to be 100% independent from the local electrical utility company. As long as natural gas is available to the campus, the CEP will be capable of producing all campus electrical, cooling, and heating.

The downtown campus likely will be built in a phased approach; so loads will appear over a multi-year period. The equipment must be configured in discrete units to meet campus loads as they are built. Once fully built out, the anticipated downtown spaces by type include approximately 590,000 square feet of academic/classroom/office space, a 600-bed residence hall, and a 600-space parking garage. The anticipated electrical loads based on the anticipated buildout are 4,000 KW peak demand or 10MM KWH in annual consumption. The anticipated thermal loads include 2,200 TON peak cooling load and a 100,000 THERM peak heating load.

There are two main components within the CEP: the first is a series of natural gas fired prime movers coupled to generators to produce electricity for the campus, and the second is chilled water production. The primary electrical generation component is to be configured in a combined heat and power arrangement. The waste heat from the combustion process is to be captured and used to support the thermal needs of the campus buildings. The prime mover and associated generator combinations should be of sufficient number to provide N+2 level of redundancy. Photovoltaic production should also be considered as part of the portfolio, but should not exceed 10% of the peak demand.

1 *UCF Downtown Economic Impact and Fiscal Impact Analysis*, 2014. GAI Consultants.

The electrical generation components must have load-following capability. The discrete prime movers must be sized to stage on and off, to meet all campus electrical demands while maintaining a high level of thermal efficiency. An electrical storage component may be needed to modulate the production of electricity from multiple prime movers as well as photovoltaic production.

The plant should be configured in with a closed transition transfer switch. The transfer switch will allow the campus to transfer all campus electrical loads from the CEP on-site production to the local utility provider and back again, without interruption of service. The CEP is to provide primary electrical service to the campus community.

The second major component is chilled water production through a series of water-cooled electrically driven chillers. The chillers and associated ancillary equipment (towers, pumps, fans, etc.) should be of sufficient number to provide N+2 level of redundancy.

STATE UNIVERSITY SYSTEM
CIP-3 SHORT TERM PROJECT EXPLANATION

GEOGRAPHIC LOCATION: University of Central Florida, Orlando
COUNTY: Orange
PROJECT DESCRIPTION/TITLE: UCF Downtown Campus Combined Heat and Power Plant
PROJECT BR No. (if assigned):

Facility/Space Type	Net Area (NASF)	Net to Gross Conversion	Gross Area (GSF)	Unit Cost (Cost/GSF)*	Construction Cost	Assumed Bid Date	Occupancy Date
Classrooms		1.5	0	274	0		
Teaching Labs		1.5	0	268	0		
Research Labs	0	1.5	0	375	0		
Study	0	1.4	0	286	0		
Instructional Media	0	1.5	0	213	0		
Auditorium/Exhibition		1.2	0	310	0		
Gymnasiums	0	1.2	0	225	0		
Offices	1,000	1.5	1,500	284	426,000		
Campus Support Services		1.4	0	276	0		
Totals	0		1,500		426,000		

*Apply Unit Cost to total GSF based on primary space type

Space Detail for Remodeling Projects

	BEFORE		AFTER	
	Space Type	Net Area (NASF)	Space Type	Net Area (NASF)
Remodeling/Renovation				
Total Construction - New & Rem./Renov.	Total	0	Total	0

SCHEDULE OF PROJECT COMPONENTS — ESTIMATED COSTS

Basic Construction Cost	Funded to Date	2016-17	2017-18	2018-19	2019-20	2020-21	Funded & In CIP
1. a.Construction Cost (from above)		426,000					426,000
Add'l/Extraordinary Const. Costs							-
b.Environmental Impacts/Mitigation							-
c.Site Preparation		350,000					350,000
d.Landscape/Irrigaiton		200,000					200,000
e.Plaza/Walks							-
f.Roadway Improvements							-
g.Parking ___ spaces							-
h.Telecommunication		200,000					200,000
i.Electrical Service							-
j.Water Distribution							-
k.Sanitary Sewer System							-
l.Chilled Water System							-
m.Storm Water System							-
n.Energy Efficient Equipment		10,000,000					10,000,000
Total Construction Costs	0	11,176,000	0	0	0	0	11,176,000
2. Other Project Costs							
a.Land/existing facility acquisition							-
b.Professional Fees		2,273,726					2,273,726
c.Fire Marshall Fees		84,330					84,330
d.Inspection Services		489,442					489,442
e.Insurance Consultant		18,747					18,747
f.Surveys & Tests		75,000					75,000
g.Permit/Impact/Environmental Fees		105,727					105,727
h.Artwork		-					-
i.Moveable Furnishings & Equipment		226,781					226,781
j.Project Contingency		669,005					-
Total - Other Project Costs	-	3,942,758	-	-		-	3,273,753
ALL COSTS 1+2	0	15,118,758	0	0		0	14,449,753

Appropriations to Date Source	Fiscal Year	Amount
		0
TOTAL		-

Project Costs Beyond CIP Period Source	Fiscal Year	Amount
PECO	2020-21	
TOTAL		-

Total Project In CIP & Beyond
15,118,758
-
15,118,758

AGENCY University of Central Florida

BUDGET ENTITY SUS
PROJECT TITLE Center for Emerging Media Buildout

AGENCY PRIORITY 25
DATE BLDG PROGRAM APPROVED

PURPOSE, NEED, SCOPE, RELATIONSHIP OF PROJECT TO AGENCY OBJECTIVES

The Center for Emerging Media (CEM) is home to the No. 2 ranked graduate video gaming school in North America – the Florida Interactive Entertainment Academy (FIEA) – and several technology-driven and arts-related undergraduate and graduate degree programs (studio art, character animation, and interactive entertainment). Beginning in Fall 2018, CEM also will serve as a critical academic facility for the University of Central Florida's (UCF) planned downtown campus, expected to enroll approximately 15,000 students at full buildout. As an anchor for the new campus, CEM will allow UCF to relocate programs that can leverage the university's existing facilities and academic strengths downtown. CEM will initially house 1 of the 13 academic programs of strategic emphasis, as defined by the Florida Board of Governors, planned at the downtown campus, and will serve 634 students.

The digital components of the academic programs located at CEM must respond to continual changes and reflect the rapidly shifting environment of the entertainment industry. The renovations to the building will allow for the occupation of 8,000 gross square feet that is currently unused. An additional 8,000 gross square feet of the building will be reconfigured to serve the academic programs within the building. This project will increase the amount of useable space within the building to allow for program growth and the addition of UCF's Film program from the School of Visual Arts and Design. The renovated space will provide innovative new learning spaces and classrooms to educate the future creative designers of the growing emerging media industry.

The U.S. Department of Labor Bureau of Labor Statistics predicts high growth from 2012 to 2022 for the following occupations linked to this building's academic programs: 6.3% in Multimedia Artists and Animators, and 3% growth in Art Directors. In addition to strong growth, these occupations have recorded strong annual earnings. Art Directors earn an average salary of $83,690, and Multimedia Artists and Animators earn an average salary of $53,110.

Renovations to CEM, as part of the UCF Downtown campus, will create a dynamic learning environment for students in strategically-selected programs in addition to meeting the needs of growing occupations within the region and across the state.

SUSTAINABILITY AND LEED

UCF is committed to sustainability and continued reduction of energy consumption in new construction projects. As energy costs and demands continue to escalate, achieving higher levels of efficiency has become increasingly important to the university's mission. Since 2007, UCF has mandated LEED certification, with most projects achieving Gold. UCF requires specific individual LEED credits that contribute to UCF's core principles including energy efficiency, water

conservation, and indoor air quality for all projects. The Department of Utilities & Energy Services provides oversight for all new construction and major renovation projects, and expedites the commissioning process with the latest industry standards to ensure that the university's sustainability goals are met and design parameters achieved.

Classroom/Office

The space classification is predominately classroom or office type, with laboratory or research type minimized. The project will achieve Gold LEED certification from the U.S. Green Building Council (USGBC). Energy consumption will be at least 30% less than the energy standards cited in ASHRAE 90.1-2007, and water consumption will be at least 30% less than that of a comparable building. The project will utilize the district cooling loop for space cooling needs and look at alternative measures to provide dehumidification with the classifications of classroom and offices and related energy use. All heating and reheating will be hydronic.

EDUCATIONAL PLANT SURVEY

The Educational Plant Survey has not been addressed for this project. As the planning year approaches, this project will be addressed.

STATE UNIVERSITY SYSTEM
CIP-3 SHORT TERM PROJECT EXPLANATION

GEOGRAPHIC LOCATION: University of Central Florida, Orlando
COUNTY: Orange
PROJECT DESCRIPTION/TITLE: Center for Emerging Media Build-Out
PROJECT BR No. (if assigned):

Facility/Space Type	Net Area (NASF)	Net to Gross Conversion	Gross Area (GSF)	Unit Cost (Cost/GSF)*	Construction Cost	Assumed Bid Date	Occupancy Date
Classrooms		1.5	0	274	0		
Teaching Labs	5,000	1.5	7,500	268	2,010,000		
Research Labs		1.5	0	375	0		
Study		1.4	0	286	0		
Instructional Media		1.5	0	213	0		
Auditorium/Exhibition	8,000	1.2	9,600	310	2,976,000		
Gymnasiums		1.2	0	225	0		
Offices	3,000	1.5	4,500	284	1,278,000		
Campus Support Services		1.4	0	276	0		
Totals	16,000		21,600		6,264,000		
*Apply Unit Cost to total GSF based on primary space type							
Remodeling/Renovation	16,000		21,600		4,965,052		
Total Construction - New & Rem./Renov.					4,965,052		

Space Detail for Remodeling Projects

BEFORE		AFTER	
Space Type	Net Area (NASF)	Space Type	Net Area (NASF)
Offices	3000	Offices	3000
Auditorium/Exb	8000	Auditorium/Exb	8000
Teaching Labs	5000	Teaching Labs	5000
Total	0	Total	16000

SCHEDULE OF PROJECT COMPONENTS

Basic Construction Cost	Funded to Date	2016-17	2017-18	2018-19	2020-21	2019-2021	Funded & In CIP
		ESTIMATED COSTS					
1. a.Construction Cost (from above)		4,965,052					4,965,052
Add'l/Extraordinary Const. Costs							-
b.Environmental Impacts/Mitigation							-
c.Site Preparation		125,000					125,000
d.Landscape/Irrigaiton		-					-
e.Plaza/Walks							-
f.Roadway Improvements							-
g.Parking ___ spaces							-
h.Telecommunication		60,972					60,972
i.Electrical Service							-
j.Water Distribution							-
k.Sanitary Sewer System							-
l.Chilled Water System							-
m.Storm Water System							-
n.Energy Efficient Equipment							-
Total Construction Costs	0	5,151,024	0	0	0	0	**5,151,024**
2. Other Project Costs							
a.Land/existing facility acquisition							-
b.Professional Fees		573,800					573,800
c.Fire Marshall Fees		14,139					14,139
d.Inspection Services		15,000					15,000
e.Insurance Consultant		2,979					2,979
f.Surveys & Tests		-					-
g.Permit/Impact/Environmental Fees		47,625					47,625
h.Artwork		-					-
i.Moveable Furnishings & Equipment		396,885					396,885
j.Project Contingency		565,596					565,596
Total - Other Project Costs	-	1,616,024	-	-	-	-	**1,616,024**
ALL COSTS 1+2	0	6,767,048	0	0	0	0	6,767,048

Appropriations to Date Source	Fiscal Year	Amount
		0
TOTAL		-

Project Costs Beyond CIP Period Source	Fiscal Year	Amount	Total Project In CIP & Beyond
			6,767,048
TOTAL		0	6,767,048

AGENCY University of Central Florida
BUDGET ENTITY SUS
PROJECT TITLE Campus Entryways

AGENCY PRIORITY 26
DATE BLDG PROGRAM APPROVED

PURPOSE, NEED, SCOPE, RELATIONSHIP OF PROJECT TO AGENCY OBJECTIVES

The University of Central Florida has recognized for some time that the construction of appropriate entry features has lagged behind the university's tremendous growth. Over the past twenty years, UCF has become the largest university in Florida and the second largest university in the nation, but the campus lacks entry features that announce arrival to this major university. Substantial, emblematic entry features are essential for announcing arrival, expressing identity, and building connections to the surrounding community. They also contribute to first impressions and wayfinding and navigation for visitors. Every major university in the state of Florida has substantial entry features at their main entrances that enhance the arrival experience and relate to the overall architectural features of their main campuses. Currently, UCF has a single, small entry feature at the University Boulevard entrance, but this attractive feature is not scaled appropriately for the large four-way intersection with Alafaya Trail, that encompasses over 30 lanes of traffic. The entry feature at this location needs to be much larger to stand out against the background of this massive intersection. None of the other campus entries have notable entry features that announce arrival to the campus.

To address the important need for unified campus entry features, the university hired an architectural firm to develop conceptual designs for significant structures at each of the entrances to main campus. The conceptual elements draw inspiration from the campus architectural vernacular of buildings throughout campus, boldly displaying the Pegasus logo and expressing the five university values set in concrete. The features have accompanying landscape designs to form a backdrop and create a sense of arrival. These designs were vetted through a collaborative process, with broad input from key members of the university community. These plans are currently being updated and revised. Final construction documents will be developed from the revised plans, and the entry features will be built as funds become available.

AGENCY University of Central Florida
BUDGET ENTITY SUS
PROJECT TITLE Welcome Center Expansion

AGENCY PRIORITY 27
DATE BLDG PROGRAM APPROVED

PURPOSE, NEED, SCOPE, RELATIONSHIP OF PROJECT TO AGENCY OBJECTIVES

The expansion of the university's Welcome Center will enhance UCF's rankings in several Board of Governors Performance Funding measures. The expansion will improve the university's ability to recruit top undergraduate and graduate students, with an emphasis on encouraging students to enroll in strategic programs. The expansion will also focus on recruiting under-represented student populations and advising students how to efficiently progress toward a timely graduation.

The specific Board of Governors Performance Funding measures impacted by this expansion are:

4. FTIC Six-Year Graduation Rate
5. Academic Progress Rate
6. University Access Rate
7. Bachelor's Degrees with Strategic Emphasis
8. Graduate Degrees with Strategic Emphasis
10. Bachelor's Degrees Awarded Annually

The current Welcome Center serves only undergraduate students, hosts approximately 100,000 visitors annually, and is at or nearing capacity for certain functions. Without the planned 11,000 square feet expansion, welcoming and serving graduate students and other visitors in this facility is impossible.

Located adjacent to the main UCF administration building, the expansion will allow students, families, and visitors convenient access to multiple services, including financial aid information, campus tours, housing and parking information, academic counseling, and more. The expansion will also accommodate office space for support staff and serve as a venue for alumni and fundraising events, which will encourage private donations to support the university's mission.

SUSTAINABILITY AND LEED

The University of Central Florida is committed to sustainability and continued reduction of energy consumption in new construction projects. As energy costs and demands continue to escalate, achieving higher levels of efficiency has become increasingly important to the university's mission. Since 2007, UCF has mandated LEED certification, with most projects achieving Gold. UCF requires specific individual LEED credits that contribute to UCF's core principles including energy efficiency, water conservation, and indoor air quality for all projects. The Department of Utilities & Energy Services provides oversight for all new construction and major renovation projects, and expedites the commissioning process with the latest industry standards to ensure that the university's sustainability goals are met and design parameters achieved.

Classroom/Office

The space classification is predominately classroom or office type, with laboratory or research type minimized. The project will achieve Gold LEED certification from the U.S. Green Building

Council (USGBC). Energy consumption will be at least 30% less than the energy standards cited in ASHRAE 90.1-2007, and water consumption will be at least 30% less than that of a comparable building. The project will utilize the district cooling loop for space cooling needs and look at alternative measures to provide dehumidification with the classifications of classroom and offices and related energy use. All heating and reheating will be hydronic.

EDUCATIONAL PLANT SURVEY

The Educational Plant Survey has not been addressed for this project. As the planning year approaches, this project will be addressed.

STATE UNIVERSITY SYSTEM
CIP-3 SHORT TERM PROJECT EXPLANATION

GEOGRAPHIC LOCATION: University of Central Florida, Orlando
COUNTY: Orange
PROJECT DESCRIPTION/TITLE: Welcome Center Expansion
PROJECT BR No. (if assigned):___

Facility/Space Type	Net Area (NASF)	Net to Gross Conversion	Gross Area (GSF)	Unit Cost (Cost/GSF)*	Construction Cost	Assumed Bid Date	Occupancy Date
Classrooms		1.5	0	274	0		
Teaching Labs		1.5	0	268	0		
Research Labs		1.5	0	375	0		
Study		1.4	0	286	0		
Instructional Media		1.5	0	213	0		
Auditorium/Exhibition	4,000	1.2	4,800	310	1,488,000		
Gymnasiums		1.2	0	225	0		
Offices	7,000	1.5	10,500	284	2,982,000		
Campus Support Serv	650	1.4	910	276	251,160		
Totals	11,650		16,210		4,721,160		

*Apply Unit Cost to total GSF based on primary space type

Space Detail for Remodeling Projects

BEFORE		AFTER	
Space Type	Net Area (NASF)	Space Type	Net Area (NASF)
Total	0	Total	0

Remodeling/Renovation

Total Construction - New & Rem./Renov. 4,721,160

SCHEDULE OF PROJECT COMPONENTS — ESTIMATED COSTS

Basic Construction Cost	Funded to Date	2016-17	2017-18	2018-19	2019-20	2020-21	Funded & In CIP
1. a.Construction Cost (from above)			4,721,160				4,721,160
Add'l/Extraordinary Const. Costs							-
b.Environmental Impacts/Mitigation							-
c.Site Preparation			250,000				250,000
d.Landscape/Irrigaiton			200,000				200,000
e.Plaza/Walks							-
f.Roadway Improvements							-
g.Parking ___ spaces							-
h.Telecommunication			250,000				250,000
i.Electrical Service							-
j.Water Distribution							-
k.Sanitary Sewer System							-
l.Chilled Water System							-
m.Storm Water System							-
n.Energy Efficient Equipment							-
Total Construction Costs	0	0	5,421,160	0	0	0	5,421,160
2. Other Project Costs							
a.Land/existing facility acquisition							-
b.Professional Fees			506,334				506,334
c.Fire Marshall Fees			30,902				30,902
d.Inspection Services			252,992				252,992
e.Insurance Consultant			6,579				6,579
f.Surveys & Tests			45,000				45,000
g.Permit/Impact/Environmental Fees			65,689				65,689
h.Artwork							-
i.Moveable Furnishings & Equipment			717,120				717,120
j.Project Contingency			268,848				268,848
Total - Other Project Costs	-	-	1,893,464	-	-	-	1,893,464
ALL COSTS 1+2	0	0	7,314,624	0	0	0	7,314,624

Appropriations to Date Source	Fiscal Year	Amount
		0
TOTAL		-

Project Costs Beyond CIP Period Source	Fiscal Year	Amount	Total Project In CIP & Beyond
PECO	2020-21		-
TOTAL		-	0

AGENCY University of Central Florida
BUDGET ENTITY SUS
PROJECT TITLE Civil and Environmental Engineering

AGENCY PRIORITY 28
DATE BLDG PROGRAM

APPROVED

PURPOSE, NEED, SCOPE, RELATIONSHIP OF PROJECT TO AGENCY OBJECTIVES

The construction industry in Florida continues on an upswing and industry executives in the Central Florida region report that there is a severe shortage of leaders in this field. Simply put, existing educational programs within the state will not be able to sustain and support the projected growth without an investment in additional educational resources. There are only three state universities in Florida that offer a construction management degree program, and UCF is the only school to offer a construction engineering degree program. UCF's program is one of only 16 accredited programs in the nation.

The College of Engineering & Computer Science (CECS) will soon start a capital campaign to secure external funding for its present construction engineering and anticipated construction management undergraduate programs. Part of the campaign will be for a new building to showcase the construction engineering and construction management programs.

Because of the importance of civil infrastructure and the environment and their relationship to responsible construction, it would be ideal for the new building to house the entire Department of Civil, Environmental, and Construction Engineering (CECE). A 50,000 square feet or larger structure housing multimedia classrooms, laboratories, faculty offices, and one auditorium is expected to require an investment of $18.4 million: $1.2 million in 2017-18, $15.4 million in 2018-19, and $1.8 million in 2019-20. CECS expects to raise about half of the funds for this building from campaign contributions, with the other half coming from the university.

The building will serve as the focal point of construction education and research in Central Florida. Construction, due to its very nature, is multidisciplinary. There is a unique opportunity to build a facility that serves as a "mecca" for students interested in a variety of aspects of construction, including the technical, sustainability, economic, environmental, political, and legal aspects. In addition, significant multidisciplinary research will be conducted; for example, in the areas of hurricane resistant buildings and energy efficient buildings that will benefit all Floridians.

This smart building will expose its systems to students and visitors in a "living lab" of the various systems and controls in modern buildings. It will be a model of energy efficiency, utilizing power from traditional sources in addition to wind and solar power. It will also use a variety of materials and finishes to highlight its various architectural aspects and construction details. The uniqueness and "transparency" of this building will make the academic programs offered in CECE even more attractive to prospective students. Enrollment in CECE programs is expected to increase by at least 100 undergraduate students (i.e., at least 11.3% over the 879 students in CECE programs in Fall 2014), and those students will have new opportunities for undergraduate research experiences under faculty direction and internships with key UCF partners. At the same

STATE UNIVERSITY SYSTEM
CIP-3 SHORT TERM PROJECT EXPLANATION

Page ___of ___

GEOGRAPHIC LOCATION: University of Central Florida, Orlando
COUNTY: Orange
PROJECT DESCRIPTION/TITLE: Civil & Environmental Engineering
PROJECT BR No. (if assigned):

Facility/Space Type	Net Area (NASF)	Net to Gross Conversion	Gross Area (GSF)	Unit Cost (Cost/GSF)*	Construction Cost	Assumed Bid Date	Occupancy Date
Classrooms	13,000	1.5	19,500	274	5,343,000		
Teching Labs	10,000	1.5	15,000	268	4,020,000		
Research Labs	-	1.5	-	375	-		
Study	-	1.4	-	286	-		
Instructional Media	-	1.5	-	213	-		
Auditorium/Exhibition	4,450	1.2	5,340	310	1,655,400		
Gymnasiums	-	1.2	-	225	-		
Offices	6,000	1.5	9,000	284	2,556,000		
Campus Support Services		1.4	-	276	-		
Totals	33,450		48,840		**13,574,400**		

*Apply Unit Cost to total GSF based on primary space type

Space Detail for Remodeling Projects

	BEFORE		AFTER	
	Space Type	Net Area (NASF)	Space Type	Net Area (NASF)
Remodeling/Renovation				
Total Construction - New & Rem./Renov.	Total		Total	

SCHEDULE OF PROJECT COMPONENTS

ESTIMATED COSTS

Basic Construction Cost	Funded to Date	2016-17	2017-18	2018-19	2019-20	2020-21	Funded & In CIP
1. a.Construction Cost (from above)				13,574,400			
Add'l/Extraordinary Const. Costs							
b.Environmental Impacts/Mitigation							
c.Site Preparation				287,282			
d.Landscape/Irrigaiton				200,000			
e.Plaza/Walks							
f.Roadway Improvements							
g.Parking ___ spaces							
h.Telecommunication				250,000			
i.Electrical Service							
j.Water Distribution							
k.Sanitary Sewer System							
l.Chilled Water System							
m.Storm Water System							
n.Energy Efficient Equipment							
Total Construction Costs			0	14,311,682			
2. Other Project Costs							
a.Land/existing facility acquisition							
b.Professional Fees			879,737	211,622	36213		
c.Fire Marshall Fees			37,860				
d.Inspection Services			200,000	34,205			
e.Insurance Consultant			8,167				
f.Surveys & Tests			30,000				
g.Permit/Impact/Environmental Fees			75,472				
h.Artwork				75,721			
i.Moveable Furnishings & Equipment			-		1,810,640		
j.Project Contingency				757,210			
Total - Other Project Costs		0	1,231,236	1,078,758	1,846,853	0	
ALL COSTS 1+2		**0**	**1,231,236**	**15,390,440**	**1,846,853**	**0**	**18,468,529**

Appropriations to Date Source	Fiscal Year	Amount	Project Costs Beyond CIP Period Source	Fiscal Year	Amount	Total Project In CIP & Beyond
TOTAL			TOTAL			

AGENCY University of Central Florida

BUDGET ENTITY SUS
PROJECT TITLE UCF Downtown Building 3

AGENCY PRIORITY 29
DATE BLDG PROGRAM APPROVED

PURPOSE, NEED, SCOPE, RELATIONSHIP OF PROJECT TO AGENCY OBJECTIVES

The University of Central Florida intends to build a campus in downtown Orlando that will ultimately enroll approximately 15,000 students at full buildout. The campus will provide for new academic learning space and focus on the growing fields of digital media and communications, as well as public health and public affairs. Locating these programs in downtown Orlando in interactive, innovative new learning environments will allow for increased experiential and internship opportunities for students in these fields, along with enhanced networking and research or collaborative academic partnerships with faculty and the professional community in downtown Orlando. Additionally, one-time investment in developing and constructing UCF Downtown facilities and related infrastructure is expected to generate a total $575 million in gross economic income and 4,070 jobs, providing $255 million in wages and salaries.[1]

Building 3 is critical to the success of the new downtown campus, and will be home to academic programs such as communication sciences and disorders, criminal justice, public administration, urban and regional planning, nonprofit management, and social work. This building will house 2 of the 13 academic programs of strategic emphasis, as defined by the Florida Board of Governors, planned at the downtown campus. Building 3 also will serve 3,887 UCF students (based upon Fall 2018 enrollment projections). Programs in Building 3 are in high demand and will prepare students for occupations in growing industries. The U.S. Department of Labor Bureau of Labor Statistics predicts high growth from 2012 to 2022 for the following occupations linked to this buildings academic programs: 33.6% growth in Audiologists, 20.8% growth in Social and Community Service Managers, and 10.3% in Urban and Regional Planners. In addition to strong growth, these occupations have recorded strong annual earnings. Social and Community Service Managers earn an average salary of $70,520, and Urban and Regional Planners earn an average salary of $70,520.

Students studying in Building 3 will be within a 15-minute walk of many valuable experiential learning opportunities they would not find in such close proximity to UCF's main campus. For example, urban and regional planning majors could intern at the City of Orlando or Orange County administrative offices, or the dozens of related public service or planning offices in the immediate area. Additionally, the building will provide space for several of UCF's community-facing operations, such as the Florida Center for Nursing and the Florida Institute of Government.

Building 3 will be 83,000 gross square feet dedicated to flexible learning environments, teaching laboratories and collaborative learning spaces that encourage interdisciplinary education and problem solving. In addition, this facility will include clinic space and space to support community-facing centers and services. This facility will break down traditional brick-and-mortar barriers and

1 *UCF Downtown Economic Impact and Fiscal Impact Analysis*, 2014. GAI Consultants.

encourage synergies among faculty, staff, and students through intentional space design. In addition, this facility will be designed to flexibly adapt to new trends related to innovative teaching and learning.

Building 3, as part of the UCF Downtown campus, will create a dynamic learning environment for students in strategically selected programs in addition to meeting the needs of growing occupations within the region and across the state.

SUSTAINABILITY AND LEED

UCF is committed to sustainability and continued reduction of energy consumption in new construction projects. As energy costs and demands continue to escalate, achieving higher levels of efficiency has become increasingly important to the university's mission. Since 2007, UCF has mandated LEED certification, with most projects achieving Gold. UCF requires specific individual LEED credits that contribute to UCF's core principles including energy efficiency, water conservation, and indoor air quality for all projects. The Department of Utilities & Energy Services provides oversight for all new construction and major renovation projects, and expedites the commissioning process with the latest industry standards to ensure that the university's sustainability goals are met and design parameters achieved.

Classroom/Office

The space classification is predominately classroom or office type, with laboratory or research type minimized. The project will achieve Gold LEED certification from the U.S. Green Building Council (USGBC). Energy consumption will be at least 30% less than the energy standards cited in ASHRAE 90.1-2007, and water consumption will be at least 30% less than that of a comparable building. The project will utilize the district cooling loop for space cooling needs and look at alternative measures to provide dehumidification with the classifications of classroom and offices and related energy use. All heating and reheating will be hydronic.

EDUCATIONAL PLANT SURVEY

The Educational Plant Survey has not been addressed for this project. As the planning year approaches, this project will be addressed.

Classroom/Office

The space classification is predominately classroom or office type, with laboratory or research type minimized. The project should achieve Gold LEED certification from the U.S. Green Building Council (USGBC). Energy consumption will be at least 30% less than the energy standards cited in ASHRAE 90.1-2007, and water consumption should be at least 30% less than that of a comparable building. The project should utilize the district cooling loop for space cooling needs and look at alternative measures to provide dehumidification with the classifications of classroom and offices and related energy use. All heating and reheating should be hydronic.

EDUCATIONAL PLANT SURVEY

The Educational Plant Survey has not been addressed for this project. As the planning year approaches, this project will be addressed.

AGENCY University of Central Florida
BUDGET ENTITY SUS
PROJECT TITLE Howard Phillips Hall Renovation

AGENCY PRIORITY 30
DATE BLDG PROGRAM

APPROVED

PURPOSE, NEED, SCOPE, RELATIONSHIP OF PROJECT TO AGENCY OBJECTIVES

Howard Phillips Hall (HPH), built in 1969, is 46 years old and was partially remodeled in 1990 and 2000. It is in poor condition and requires attention to its building systems as well as changes to existing interior space configurations. As a result of other newer buildings being completed (Health & Public Affairs Buildings I & II and the Psychology Building), some academic departments moved out, and other College of Sciences academic units now occupy the 3rd and 4th floors of this building. There are also other academic-affiliated units (such as Global Perspectives) located within in the building.

It is critical that the academic units currently housed in HPH expand. This can be accomplished by the renovation of the building with spaces being reconfigured to optimize efficiency. Once Colbourn Hall is renovated or a Social Sciences building is constructed, the renovated spaces in HPH will be reassigned to central administration units. The location of Howard Phillips Hall is especially suitable for central administrative usage, given its proximity to the existing Administration Building.

If the project is not approved, the building will not effectively support the changing needs of the university.

The university contracted with the ISES Corporation to conduct a Facilities Condition Assessment (FCA) to benchmark the condition of its E&G facilities. The Howard Phillips Hall renovation will address both critical and non-critical issues identified in the FCA. These issues encompass deficiencies such as indoor air quality, fire alarm modernization, potable water and plumbing distribution systems, electrical service, asbestos, HVAC modernization, lighting upgrades, building automation, ADA compliance, building envelope repairs, interior finishes, flooring, egress, exterior lighting, and utility service entrance upgrades. Information technology upgrades are also required in order to meet current and future requirements.

SUSTAINABILITY AND LEED

The University of Central Florida is committed to sustainability and continued reduction of energy consumption in new construction projects. As energy costs and demands continue to escalate, achieving higher levels of efficiency has become increasingly important to the university's mission. Since 2007, UCF has mandated LEED certification, with most projects achieving Gold. UCF requires specific individual LEED credits that contribute to UCF's core beliefs including energy efficiency, water conservation, and indoor air quality for all projects. The Department of Utilities & Energy Services provides oversight for all new construction and major renovation projects, and expedites the commissioning process with the latest industry standards to ensure that the university's sustainability goals are met and design parameters achieved.

STATE UNIVERSITY SYSTEM
CIP-3 SHORT TERM PROJECT EXPLANATION

Page ___of ___

GEOGRAPHIC LOCATION: University of Central Florida, Orlando
COUNTY: Orange
PROJECT DESCRIPTION/TITLE: Howard Phillips Hall Renovation
PROJECT BR No. (if assigned):____

Facility/Space Type	Net Area (NASF)	Net to Gross Conversion	Gross Area (GSF)	Unit Cost (Cost/GSF)*	Construction Cost	Assumed Bid Date	Occupancy Date
Classrooms		1.5	0	274	0		
Teaching Labs		1.5	0	268	0		
Research Labs		1.5	0	375	0		
Study		1.4	0	286	0		
Instructional Media		1.5	0	215	0		
Auditorium/Exhibition		1.2	0	310	0		
Gymnasiums		1.2	0	225	0		
Offices		1.5	0	284	0		
Campus Support Services		1.4	0	276	0		
Totals	0		0		0		

*Apply Unit Cost to total GSF based on primary space type

Space Detail for Remodeling Projects

BEFORE		AFTER	
Space Type	Net Area (NASF)	Space Type	Net Area (NASF)
Offices	12,461	Offices	12,461
Total	12,461	Total	12,461

Remodeling/Renovation

56903	64619	

Total Construction - New & Rem./Renov. 5,479,213

SCHEDULE OF PROJECT COMPONENTS — ESTIMATED COSTS

Basic Construction Cost	Funded to Date	2016-17	2017-18	2018-19	2019-2020	2020-21	Funded & In CIP
1. a.Construction Cost (from above)			5,479,213				5,479,213
Add'l/Extraordinary Const. Costs							-
b.Environmental Impacts/Mitigation							-
c.Site Preparation							-
d.Landscape/Irrigaiton			-				-
e.Plaza/Walks							-
f.Roadway Improvements							-
g.Parking ___ spaces							-
h.Telecommunication			-				-
i.Electrical Service							-
j.Water Distribution							-
k.Sanitary Sewer System							-
l.Chilled Water System							-
m.Storm Water System							-
n.Energy Efficient Equipment							-
Total Construction Costs	0	0	5,479,213	0	0	0	5,479,213
2. Other Project Costs							
a.Land/existing facility acquisition							-
b.Professional Fees			629,173				629,173
c.Fire Marshall Fees			16,115				16,115
d.Inspection Services			20,461				20,461
e.Insurance Consultant			3,288				3,288
f.Surveys & Tests			-				-
g.Permit/Impact/Environmental Fees			50,532				50,532
h.Artwork			-				-
i.Moveable Furnishings & Equipment			449,730				449,730
j.Project Contingency			996,902				996,902
Total - Other Project Costs	-	-	2,166,201	-	-	-	2,166,201
ALL COSTS 1+2	0	0	7,645,414	0	0	0	7,645,414

Appropriations to Date Source	Fiscal Year	Amount
TOTAL		-

Project Costs Beyond CIP Period Source	Fiscal Year	Amount
TOTAL		0

Total Project In CIP & Beyond 7,645,414

AGENCY University of Central Florida
BUDGET ENTITY SUS
PROJECT TITLE Ferrell Commons Renovation

AGENCY PRIORITY 31
DATE BLDG PROGRAM APPROVED

PURPOSE, NEED, SCOPE, RELATIONSHIP OF PROJECT TO AGENCY OBJECTIVES

The Ferrell Commons renovation will address both critical and non-critical issues that exist within the facilities. These issues encompass deficiencies such as office design and ADA compliance, indoor air quality, fire alarm modernization, potable water and plumbing distribution systems, electrical service, asbestos, HVAC modernization, lighting upgrades, building automation, interior finishes, flooring, egress, and exterior lighting. Information technology upgrades are also required in order to meet current and future requirements.

SUSTAINABILITY AND LEED

The University of Central Florida is committed to sustainability and continued reduction of energy consumption in new construction projects. As energy costs and demands continue to escalate, achieving higher levels of efficiency has become increasingly important to the university's mission. Since 2007, UCF has mandated LEED certification, with most projects achieving Gold. UCF requires specific individual LEED credits that contribute to UCF's core principles including energy efficiency, water conservation, and indoor air quality for all projects. The Department of Utilities & Energy Services provides oversight for all new construction and major renovation projects, and expedites the commissioning process with the latest industry standards to ensure that the university's sustainability goals are met and design parameters achieved.

Classroom/Office

The space classification is predominately classroom or office type, with laboratory or research type minimized. The project will achieve Gold LEED certification from the U.S. Green Building Council (USGBC). Energy consumption will be at least 30% less than the energy standards cited in ASHRAE 90.1-2007, and water consumption will be at least 30% less than that of a comparable building. The project will utilize the district cooling loop for space cooling needs and look at alternative measures to provide dehumidification with the classifications of classroom and offices and related energy use. All heating and reheating will be hydronic.

EDUCATIONAL PLANT SURVEY

The Educational Plant Survey has not been addressed for this project. As the planning year approaches, this project will be addressed.

STATE UNIVERSITY SYSTEM
CIP-3 SHORT TERM PROJECT EXPLANATION

GEOGRAPHIC LOCATION: University of Central Florida, Orlando
COUNTY: Orange
PROJECT DESCRIPTION/TITLE: Ferrell Commons (E & G Space) Ren.
PROJECT BR No. (if assigned):___

Facility/Space Type	Net Area (NASF)	Net to Gross Conversion	Gross Area (GSF)	Unit Cost (Cost/GSF)*	Construction Cost	Assumed Bid Date	Occupancy Date
Classrooms		1.5	0	274	0		
Teaching Labs		1.5	0	268	0		
Research Labs		1.5	0	375	0		
Study		1.4	0	286	0		
Instructional Media		1.5	0	215	0		
Auditorium/Exhibition		1.2	0	310	0		
Gymnasiums		1.2	0	225	0		
Offices		1.5	0	284	0		
Campus Support Services		1.4	0	276	0		
Totals	0		0		0		

*Apply Unit Cost to total GSF based on primary space type

Space Detail for Remodeling Projects

BEFORE		AFTER	
Space Type	Net Area (NASF)	Space Type	Net Area (NASF)
Offices	20,014	Offices	20,014
Total	20,014	Total	20,014

Remodeling/Renovation

86,149	93,860	4,336,450

Total Construction - New & Rem./Renov. 4,336,450

SCHEDULE OF PROJECT COMPONENTS — ESTIMATED COSTS

Basic Construction Cost	Funded to Date	2016-17	2017-18	2018-19	2019-20	2020-21	Funded & In CIP
1. a.Construction Cost (from above)			4,336,450				4,336,450
Add'l/Extraordinary Const. Costs							
b.Environmental Impacts/Mitigation							-
c.Site Preparation							-
d.Landscape/Irrigaiton				-			
e.Plaza/Walks							-
f.Roadway Improvements							-
g.Parking ___ spaces							-
h.Telecommunication				-			
i.Electrical Service							-
j.Water Distribution							-
k.Sanitary Sewer System							-
l.Chilled Water System							-
m.Storm Water System							-
n.Energy Efficient Equipment							-
Total Construction Costs	0	0	4,336,450	0	0	0	4,336,450
2. Other Project Costs							
a.Land/existing facility acquisition							-
b.Professional Fees			502,617				502,617
c.Fire Marshall Fees			12,754				12,754
d.Inspection Services			6,146				6,146
e.Insurance Consultant			2,602				2,602
f.Surveys & Tests			-				-
g.Permit/Impact/Environmental Fees			45,374				45,374
h.Artwork			-				-
i.Moveable Furnishings & Equipment			355,933				355,933
j.Project Contingency			788,984				788,984
Total - Other Project Costs	-	-	1,714,410		-	-	1,397,493
ALL COSTS 1+2	0	0	6,050,860	0	0	0	6,050,860

Appropriations to Date Source	Fiscal Year	Amount
PECO	2012-13	0
TOTAL		-

Project Costs Beyond CIP Period Source	Fiscal Year	Amount
TOTAL		0

Total Project In CIP & Beyond: 6,050,860

AGENCY University of Central Florida

BUDGET ENTITY SUS
PROJECT TITLE UCF Downtown Building 4

AGENCY PRIORITY 32
DATE BLDG PROGRAM APPROVED

PURPOSE, NEED, SCOPE, RELATIONSHIP OF PROJECT TO AGENCY OBJECTIVES

The University of Central Florida intends to build a campus in downtown Orlando that will ultimately enroll approximately 15,000 students at full buildout. The campus will provide for new academic learning space and focus on the growing fields of digital media and communications, as well as public health and public affairs. Locating these programs in downtown Orlando in interactive, innovative new learning environments will allow for increased experiential and internship opportunities for students in these fields, along with enhanced networking and research or collaborative academic partnerships with faculty and the professional community in downtown Orlando. Additionally, one-time investment in developing and constructing UCF Downtown facilities and related infrastructure is expected to generate a total $575 million in gross economic income and 4,070 jobs, providing $255 million in wages and salaries.[1]

Building 4 is critical to the success of the new downtown campus, and will be home to academic programs such as emerging media, visual arts, and experimental animation. Building 4 will serve 877 UCF students (based upon Fall 2018 enrollment projections). Programs in Building 4 are in high demand and will prepare students for occupations in growing industries. The U.S. Department of Labor Bureau of Labor Statistics predicts high growth from 2012 to 2022 for the following occupations linked to this building's academic programs: 6.7% growth in Graphic Designers, 6.3% in Multimedia Artists and Animators, and 3% growth in Art Directors. In addition to strong growth, these occupations have recorded strong annual earnings. Art Directors earn an average salary of $83,690, and Graphic Designers earn an average salary of $44,340.

Students studying in Building 4 will be within a 15-minute walk of many valuable experiential learning opportunities they would not find in such close proximity to UCF's main campus. For example, emerging media or experimental animation majors could intern at one of the 70 technology-based companies located in downtown Orlando's nearby Church Street Station technology and start-up hub. Additionally, the building could provide space for several of UCF's community-facing operations, such as its public arts galleries and maker spaces.

Building 4 will be 120,000 gross square feet dedicated to flexible learning environments, wet labs, teaching laboratories, and collaborative learning spaces that encourage interdisciplinary education and problem solving. This facility will break down traditional brick-and-mortar barriers and encourage synergies among faculty, staff, and students through intentional space design. In addition, this facility will be designed to flexibly adapt to new trends related to innovative teaching and learning in a creative environment.

1 *UCF Downtown Economic Impact and Fiscal Impact Analysis*, 2014. GAI Consultants.

Building 4, as part of the UCF Downtown campus, will create a dynamic learning environment for students in strategically selected programs in addition to meeting the needs of growing occupations within the region and across the state.

SUSTAINABILITY AND LEED

UCF is committed to sustainability and continued reduction of energy consumption in new construction projects. As energy costs and demands continue to escalate, achieving higher levels of efficiency has become increasingly important to the university's mission. Since 2007, UCF has mandated LEED certification, with most projects achieving Gold. UCF requires specific individual LEED credits that contribute to UCF's core principles including energy efficiency, water conservation, and indoor air quality for all projects. The Department of Utilities & Energy Services provides oversight for all new construction and major renovation projects, and expedites the commissioning process with the latest industry standards to ensure that the university's sustainability goals are met and design parameters achieved.

Classroom/Office

The space classification is predominately classroom or office type, with laboratory or research type minimized. The project will achieve Gold LEED certification from the U.S. Green Building Council (USGBC). Energy consumption will be at least 30% less than the energy standards cited in ASHRAE 90.1-2007, and water consumption will be at least 30% less than that of a comparable building. The project will utilize the district cooling loop for space cooling needs and look at alternative measures to provide dehumidification with the classifications of classroom and offices and related energy use. All heating and reheating will be hydronic.

EDUCATIONAL PLANT SURVEY

The Educational Plant Survey has not been addressed for this project. As the planning year approaches, this project will be addressed.

STATE UNIVERSITY SYSTEM
CIP-3 SHORT TERM PROJECT EXPLANATION

Page ___of ___

GEOGRAPHIC LOCATION: University of Central Florida, Orlando
COUNTY: Orange
PROJECT DESCRIPTION/TITLE: UCF Downtown Building IV
PROJECT BR No. (if assigned):___

Facility/Space Type	Net Area (NASF)	Net to Gross Conversion	Gross Area (GSF)	Unit Cost (Cost/GSF)*	Construction Cost	Assumed Bid Date	Occupancy Date
Classrooms	14,000	1.5	21,000	274	5,754,000		
Teaching Labs	20,000	1.5	30,000	268	8,040,000		
Research Labs	0	1.5	0	375	0		
Study	0	1.4	0	286	0		
Instructional Media	0	1.5	0	213	0		
Auditorium/Exhibition	30,000	1.2	36,000	310	11,160,000		
Gymnasiums	0	1.2	0	225	0		
Offices	10,000	1.5	15,000	284	4,260,000		
Campus Support Serv	5,360	1.4	7,504	276	2,070,969		
Totals	79,360		109,504		31,284,969		

*Apply Unit Cost to total GSF based on primary space type

Remodeling/Renovation

Total Construction - New & Rem./Renov. 31,284,969

Space Detail for Remodeling Projects

BEFORE		AFTER	
Space Type	Net Area (NASF)	Space Type	Net Area (NASF)
Total	0	Total	0

SCHEDULE OF PROJECT COMPONENTS — ESTIMATED COSTS

Basic Construction Cost	Funded to Date	2016-17	2017-18	2018-19	2019-20	2020-21	Funded & In CIP
1. a.Construction Cost (from above)				31,284,969			31,284,969
Add'l/Extraordinary Const. Costs							-
b.Environmental Impacts/Mitigation							-
c.Site Preparation				750,000			750,000
d.Landscape/Irrigaiton				400,000			400,000
e.Plaza/Walks							-
f.Roadway Improvements							-
g.Parking ___ spaces							-
h.Telecommunication				500,000			500,000
i.Electrical Service							-
j.Water Distribution							-
k.Sanitary Sewer System							-
l.Chilled Water System							-
m.Storm Water System							-
n.Energy Efficient Equipment							-
Total Construction Costs	0	0	0	32,934,969	0	0	32,934,969
2. Other Project Costs							
a.Land/existing facility acquisition							-
b.Professional Fees				2,273,726			2,273,726
c.Fire Marshall Fees				84,330			84,330
d.Inspection Services				644,272			644,272
e.Insurance Consultant				18,747			18,747
f.Surveys & Tests				100,000			100,000
g.Permit/Impact/Environmental Fees				105,727			105,727
h.Artwork				100,000			100,000
i.Moveable Furnishings & Equipment				4,216,485			4,216,485
j.Project Contingency				1,686,594			1,686,594
Total - Other Project Costs	-	-	-	9,229,881		-	9,229,881
ALL COSTS 1+2	0	0	0	42,164,850		0	42,164,850

Appropriations to Date Source	Fiscal Year	Amount
		0
TOTAL		-

Project Costs Beyond CIP Period Source	Fiscal Year	Amount
PECO	2020-21	42,164,850
		-
TOTAL		-

Total Project In CIP & Beyond: 42,164,850

AGENCY University of Central Florida
BUDGET ENTITY SUS
PROJECT TITLE Classroom Building III

AGENCY PRIORITY 33
DATE BLDG PROGRAM APPROVED

PURPOSE, NEED, SCOPE, RELATIONSHIP OF PROJECT TO AGENCY OBJECTIVES

Classroom Building III will provide general classrooms, faculty offices, and support services for enhanced teaching and learning. This facility will house a variety of advanced-technology classrooms and ubiquitous network access and multimedia facilities that will foster innovative teaching and learning practices. This building must be a "state-of-the-art" facility that allows for re-configuration of classrooms to accommodate varied instructional settings.

Based on the 2011 Educational Plant Survey analysis for space needs, the university has a shortage of classroom space and requires this new building to meet the growing need. UCF students are also taking summer classes in order to meet graduation requirements.

The effects of a delay in constructing Classroom Building III will limit class offerings that are needed to ensure student progress to graduation.

SUSTAINABILITY AND LEED

The University of Central Florida is committed to sustainability and continued reduction of energy consumption in new construction projects. As energy costs and demands continue to escalate, achieving higher levels of efficiency has become increasingly important to the university's mission. Since 2007, UCF has mandated LEED certification, with most projects achieving Gold. UCF requires specific individual LEED credits that contribute to UCF's core principles including energy efficiency, water conservation, and indoor air quality for all projects. The Department of Utilities & Energy Services provides oversight for all new construction and major renovation projects, and expedites the commissioning process with the latest industry standards to ensure that the university's sustainability goals are met and design parameters achieved.

Classroom/Office

The space classification is predominately classroom or office type, with laboratory or research type minimized. The project will achieve Gold LEED certification from the U.S. Green Building Council (USGBC). Energy consumption will be at least 30% less than the energy standards cited in ASHRAE 90.1-2007, and water consumption will be at least 30% less than that of a comparable building. The project will utilize the district cooling loop for space cooling needs and look at alternative measures to provide dehumidification with the classifications of classroom and offices and related energy use. All heating and reheating will be hydronic.

EDUCATIONAL PLANT SURVEY

The Educational Plant Survey has not been addressed for this project. As the planning year approaches, this project will be addressed.

STATE UNIVERSITY SYSTEM
CIP-3 SHORT TERM PROJECT EXPLANATION

GEOGRAPHIC LOCATION: University of Central Florida, Orlando
COUNTY: Orange
PROJECT DESCRIPTION/TITLE: Classroom Building III
PROJECT BR No. (if assigned):

Facility/Space Type	Net Area (NASF)	Net to Gross Conversion	Gross Area (GSF)	Unit Cost (Cost/GSF)*	Construction Cost	Assumed Bid Date	Occupancy Date
Classrooms	5,000	1.5	7,500	274	2,055,000		
Teaching Labs	15,000	1.5	22,500	268	6,030,000		
Research Labs	5,000	1.5	7,500	375	2,812,500		
Study		1.4	0	286	0		
Instructional Media	4,500	1.5	6,750	213	1,437,750		
Auditorium/Exhibition	0	1.2	0	310	0		
Gymnasiums		1.2	0	225	0		
Offices	12,000	1.5	18,000	284	5,112,000		
Campus Support Services		1.4	0	276	0		
Totals	41,500		62,250		17,447,250		

*Apply Unit Cost to total GSF based on primary space type

Remodeling/Renovation

Total Construction - New & Rem./Renov. 0

Space Detail for Remodeling Projects

BEFORE		AFTER	
Space Type	Net Area (NASF)	Space Type	Net Area (NASF)
Total	0	Total	0

SCHEDULE OF PROJECT COMPONENTS — ESTIMATED COSTS

Basic Construction Cost	Funded to Date	2016-17	2017-18	2018-19	2019-20	2020-21	Funded & In CIP
1. a.Construction Cost (from above)					17,447,250		17,447,250
Add'l/Extraordinary Const. Costs							-
b.Environmental Impacts/Mitigation							-
c.Site Preparation				85,807	350,000		435,807
d.Landscape/Irrigaiton					307,746		307,746
e.Plaza/Walks							-
f.Roadway Improvements							-
g.Parking ___ spaces							-
h.Telecommunication					350,118		350,118
i.Electrical Service							-
j.Water Distribution							-
k.Sanitary Sewer System							-
l.Chilled Water System							-
m.Storm Water System							-
n.Energy Efficient Equipment							-
Total Construction Costs	0	0	0	85,807	18,455,114	0	18,540,921
2. Other Project Costs							
a.Land/existing facility acquisition							-
b.Professional Fees				1,599,266	390,634	48,830	1,735,531
c.Fire Marshall Fees				49,920			48,000
d.Inspection Services				412,938			273,180
e.Insurance Consultant				10,902			10,351
f.Surveys & Tests				45,000			45,000
g.Permit/Impact/Environmental Fees				86,779			94,938
h.Artwork					100,000		100,000
i.Moveable Furnishings & Equipment						2,441,462	2,400,000
j.Project Contingency				199,680	976,585		1,153,000
Total - Other Project Costs	-	-	-	2,404,485	1,467,219	2,490,292	5,860,000
ALL COSTS 1+2	0	0	0	2,490,292	19,922,333	2,490,292	24,902,917

Appropriations to Date Source	Fiscal Year	Amount	Project Costs Beyond CIP Period Source	Fiscal Year	Amount	Total Project In CIP & Beyond
PECO		0				
TOTAL		-	TOTAL		0	24,902,917

AGENCY University of Central Florida
BUDGET ENTITY SUS
PROJECT TITLE CLASSROOM & LAB BUILDING-LAKE NONA

AGENCY PRIORITY 34
DATE BLDG PROGRAM APPROVED

PURPOSE, NEED, SCOPE, RELATIONSHIP OF PROJECT TO AGENCY OBJECTIVES

A Classroom/Collaboration Building will provide interdisciplinary classrooms, teaching labs, faculty offices, and support services for enhanced teaching and learning. This facility will house a variety of advanced-technology classrooms, teaching labs and provide ubiquitous network access and multimedia facilities fostering innovative teaching and learning practices. This building must be a state-of-the-art facility allowing for the re-configuration of classrooms to accommodate varied instructional settings.

There is a need to expand our current offerings in teaching labs and collaborative space as well as study spaces for the biomedical sciences.

SUSTAINABILITY AND LEED

The University of Central Florida is committed to sustainability and continued reduction of energy consumption in new construction projects. As energy costs and demands continue to escalate, achieving higher levels of efficiency has become increasingly important to the university's mission. Since 2007, UCF has mandated LEED certification, with most projects achieving Gold. UCF requires specific individual LEED credits which contribute to UCF's core principles including energy efficiency, water conservation, and indoor air quality for all projects. The Department of Utilities & Energy Services provides oversight for all new construction and major renovation projects, and expedites the commissioning process with the latest industry standards to ensure the university's sustainability goals are met and design parameters achieved.

Classroom/Office

The space classification is predominately classrooms and teaching labs classification. The project will achieve LEED certification from the U.S. Green Building Council (USGBC). Energy consumption will be at least 30% less than the energy standards cited in ASHRAE 90.1-2007, and water consumption will be at least 30% less than that of a comparable building.

EDUCATIONAL PLANT SURVEY

As the planning year approaches, the Educational Plant Survey for this project will be addressed.

STATE UNIVERSITY SYSTEM
CIP-3 SHORT TERM PROJECT EXPLANATION

GEOGRAPHIC LOCATION: University of Central Florida, Orlando
COUNTY: Orange
PROJECT DESCRIPTION/TITLE: Classroom and Lab Building
PROJECT BR No. (if assigned):___

Facility/Space Type	Net Area (NASF)	Net to Gross Conversion	Gross Area (GSF)	Unit Cost (Cost/GSF)*	Construction Cost	Assumed Bid Date	Occupancy Date
Classrooms	5,000	1.5	7,500	274	2,055,000		
Teaching Labs	15,000	1.5	22,500	268	6,030,000		
Research Labs	5,000	1.5	7,500	375	2,812,500		
Study		1.4	0	286	0		
Instructional Media	4,500	1.5	6,750	213	1,437,750		
Auditorium/Exhibition	0	1.2	0	310	0		
Gymnasiums		1.2	0	225	0		
Offices	12,000	1.5	18,000	284	5,112,000		
Campus Support Services		1.4	0	276	0		
Totals	41,500		62,250		17,447,250		

*Apply Unit Cost to total GSF based on primary space type

Space Detail for Remodeling Projects

BEFORE		AFTER	
Space Type	Net Area (NASF)	Space Type	Net Area (NASF)
Total	0	Total	0

Remodeling/Renovation

Total Construction - New & Rem./Renov. 0

SCHEDULE OF PROJECT COMPONENTS — ESTIMATED COSTS

Basic Construction Cost	Funded to Date	2016-17	2017-18	2018-19	2019-20	2020-21	Funded & In CIP
1. a.Construction Cost (from above)					17,447,250		17,447,250
Add'l/Extraordinary Const. Costs							-
b.Environmental Impacts/Mitigation							-
c.Site Preparation				85,807	350,000		435,807
d.Landscape/Irrigaiton					307,746		307,746
e.Plaza/Walks							-
f.Roadway Improvements							-
g.Parking ___ spaces							-
h.Telecommunication					350,118		350,118
i.Electrical Service							-
j.Water Distribution							-
k.Sanitary Sewer System							-
l.Chilled Water System							-
m.Storm Water System							-
n.Energy Efficient Equipment							-
Total Construction Costs	0	0	0	85,807	18,455,114	0	18,540,921
2. Other Project Costs							
a.Land/existing facility acquisition							-
b.Professional Fees				1,599,266	390,634	48,830	1,735,531
c.Fire Marshall Fees				49,920			48,000
d.Inspection Services				412,938			273,180
e.Insurance Consultant				10,902			10,351
f.Surveys & Tests				45,000			45,000
g.Permit/Impact/Environmental Fees				86,779			94,938
h.Artwork					100,000		100,000
i.Moveable Furnishings & Equipment						2,441,462	2,400,000
j.Project Contingency				199,680	976,585		1,153,000
Total - Other Project Costs	-	-	-	2,404,485	1,467,219	2,490,292	5,860,000
ALL COSTS 1+2	0	0	0	2,490,292	19,922,333	2,490,292	24,902,917

Appropriations to Date Source	Fiscal Year	Amount	Project Costs Beyond CIP Period Source	Fiscal Year	Amount	Total Project In CIP & Beyond
PECO		0				
TOTAL		-	TOTAL		0	24,902,917

AGENCY University of Central Florida
BUDGET ENTITY SUS
PROJECT TITLE Facilities Building at Lake Nona

AGENCY PRIORITY 35
DATE BLDG PROGRAM
APPROVED

PURPOSE, NEED, SCOPE, RELATIONSHIP OF PROJECT TO AGENCY OBJECTIVES

The Facilities Building at Lake Nona will house Facilities and Safety departments (Facilities Planning, Facilities Operations, Landscape & Natural Resources, Environmental Health & Safety, Utilities & Energy Services), and the Police Department, to provide optimal support to faculty, staff and students.

Delays in construction will prohibit Facilities & Safety from efficiently and effectively maintaining the Lake Nona Medical Campus.

SUSTAINABILITY AND LEED

The University of Central Florida is committed to sustainability and continued reduction of energy consumption in new construction projects. As energy costs and demands continue to escalate, achieving higher levels of efficiency has become increasingly important to the university's mission. Since 2007, UCF has mandated LEED certification, with most projects achieving Gold. UCF requires specific individual LEED credits that contribute to UCF's core principles including energy efficiency, water conservation, and indoor air quality for all projects. The Department of Utilities & Energy Services provides oversight for all new construction and major renovation projects, and expedites the commissioning process with the latest industry standards to ensure that the university's sustainability goals are met and design parameters achieved.

EDUCATIONAL PLANT SURVEY

The Educational Plant Survey has not been addressed for this project. As the planning year approaches, this project will be addressed.

STATE UNIVERSITY SYSTEM
CIP-3 SHORT TERM PROJECT EXPLANATION

Page ___of ___

GEOGRAPHIC LOCATION: University of Central Florida, Orlando
COUNTY: Orange
PROJECT DESCRIPTION/TITLE: Facilities Building at Lake Nona
PROJECT BR No. (if assigned):____

Facility/Space Type	Net Area (NASF)	Net to Gross Conversion	Gross Area (GSF)	Unit Cost (Cost/GSF)*	Construction Cost	Assumed Bid Date	Occupancy Date
Classrooms		1.5	0	274	0		
Teaching Labs		1.5	0	268	0		
Research Labs		1.5	0	375	0		
Study		1.4	0	286	0		
Instructional Media		1.5	0	215	0		
Auditorium/Exhibition		1.2	0	310	0		
Gymnasiums		1.2	0	225	0		
Offices	9,416	1.5	14,124	284	4,011,216		
Campus Support Services		1.4	0	276	0		
Totals	9,416		23,842		4,011,216		

*Apply Unit Cost to total GSF based on primary space type

Space Detail for Remodeling Projects

BEFORE		AFTER	
Space Type	Net Area (NASF)	Space Type	Net Area (NASF)

Remodeling/Renovation

Total Construction - New & Rem./Renov. 4,011,216 Total 0 Total 0

SCHEDULE OF PROJECT COMPONENTS — ESTIMATED COSTS

Basic Construction Cost	Funded to Date	2016-17	2017-18	2018-19	2019-2020	2020-21	Funded & In CIP
1. a.Construction Cost (from above)				4,011,216			4,011,216
Add'l/Extraordinary Const. Costs							-
b.Environmental Impacts/Mitigation							-
c.Site Preparation				250,000			250,000
d.Landscape/Irrigaiton				200,000			200,000
e.Plaza/Walks							-
f.Roadway Improvements							-
g.Parking ___ spaces							-
h.Telecommunication				250,000			250,000
i.Electrical Service							-
j.Water Distribution							-
k.Sanitary Sewer System							-
l.Chilled Water System							-
m.Storm Water System							-
n.Energy Efficient Equipment							-
Total Construction Costs	0	0	0	4,711,216	0	0	4,711,216
2. Other Project Costs							
a.Land/existing facility acquisition							-
b.Professional Fees				479,127			479,127
c.Fire Marshall Fees				12,480			12,480
d.Inspection Services				113,463			113,463
e.Insurance Consultant				2,407			2,407
f.Surveys & Tests				45,000			45,000
g.Permit/Impact/Environmental Fees				46,387			46,387
h.Artwork				31,200			31,200
i.Moveable Furnishings & Equipment				624,000			624,000
j.Project Contingency				299,520			299,520
Total - Other Project Costs	-	-	-	1,653,584	-	-	1,653,584
ALL COSTS 1+2	0	0	0	6,364,800	0	0	6,364,800

Appropriations to Date Source	Fiscal Year	Amount
PECO	2012-13	0
TOTAL		-

Project Costs Beyond CIP Period Source	Fiscal Year	Amount
TOTAL		0

Total Project In CIP & Beyond: 6,364,800

AGENCY University of Central Florida
BUDGET ENTITY SUS
PROJECT TITLE Recycling Center

AGENCY PRIORITY 36
DATE BLDG PROGRAM APPROVED

PURPOSE, NEED, SCOPE, RELATIONSHIP OF PROJECT TO AGENCY OBJECTIVES

The State of Florida mandates a 30% recycling rate for all state institutions, and will increase this requirement to 75% by 2020. UCF's current recycling rate is 33%. An on-campus recycling center will allow the university to continue meeting, and in some cases exceeding, future mandates. This facility will house the day-to-day operations of the recycling and solid waste programs, receiving and processing all materials to be recycled or composted. Recycled materials include plastic, paper, corrugated cardboard, glass, steel, aluminum, food waste, and Styrofoam; with material-specific sorting, packaging, bailing and composting.

A delivery system will be designed and implemented within this facility that will be efficient from the moment an item is discarded to the end product, whether recycled, reused, or sold. This facility will be designed for optimum use of space with storage areas for both wet and dry materials, and room for future equipment expansion. The Recycling Center will produce compost for use on university landscape and sales to the general public.

The alternative to this facility is to continue the current labor-intensive process where toters, trailers, dumpsters, and roll-offs are handled for daily trash removal and recycling materials processing. If this facility is delayed, by 2020, the university will not achieve the 75% recycling rate mandated by the State, and millions of pounds of materials may have to be thrown unnecessarily into the landfill.

SUSTAINABILITY AND LEED

The University of Central Florida is committed to sustainability and continued reduction of energy consumption in new construction projects. As energy costs and demands continue to escalate, achieving higher levels of efficiency has become increasingly important to the university's mission. Since 2007, UCF has mandated LEED certification, with most projects achieving Gold. UCF requires specific individual LEED credits that contribute to UCF's core principles including energy efficiency, water conservation, and indoor air quality for all projects. The Department of Utilities & Energy Services provides oversight for all new construction and major renovation projects, and expedites the commissioning process with the latest industry standards to ensure that the university's sustainability goals are met and design parameters achieved.

EDUCATIONAL PLANT SURVEY

The Educational Plant Survey has not been addressed for this project. As the planning year approaches, this project will be addressed.

STATE UNIVERSITY SYSTEM
CIP-3 SHORT TERM PROJECT EXPLANATION

GEOGRAPHIC LOCATION: University of Central Florida, Orlando
COUNTY: Orange
PROJECT DESCRIPTION/TITLE: Recycling Center
PROJECT BR No. (if assigned):___

Facility/Space Type	Net Area (NASF)	Net to Gross Conversion	Gross Area (GSF)	Unit Cost (Cost/GSF)*	Construction Cost	Assumed Bid Date	Occupancy Date
Classrooms		1.5	0	274	0		
Teaching Labs		1.5	0	268	0		
Research Labs		1.5	0	375	0		
Study		1.4	0	286	0		
Instructional Media		1.5	0	213	0		
Auditorium/Exhibition	35,175	1.2	42,210	310	13,085,100		
Gymnasiums		1.2	0	225	0		
Offices	10,000	1.5	15,000	284	4,260,000		
Campus Support Services		1.4	0	276	0		
Totals	45,175		57,210		17,345,100		

*Apply Unit Cost to total GSF based on primary space type

Space Detail for Remodeling Projects

BEFORE		AFTER	
Space Type	Net Area (NASF)	Space Type	Net Area (NASF)
Total	0	Total	0

Remodeling/Renovation

Total Construction - New & Rem./Renov. 17,345,100

SCHEDULE OF PROJECT COMPONENTS — ESTIMATED COSTS

Basic Construction Cost	Funded to Date	2016-17	2017-18	2018-19	2019-2020	2020-21	Funded & In CIP
1. a.Construction Cost (from above)					17,345,100		17,345,100
Add'l/Extraordinary Const. Costs							-
b.Environmental Impacts/Mitigation							-
c.Site Preparation				272,041	250,000		522,041
d.Landscape/Irrigaiton					200,000		200,000
e.Plaza/Walks							-
f.Roadway Improvements							-
g.Parking ___ spaces							-
h.Telecommunication					284,100		284,100
i.Electrical Service							-
j.Water Distribution							-
k.Sanitary Sewer System							-
l.Chilled Water System							-
m.Storm Water System							-
n.Energy Efficient Equipment							-
Total Construction Costs	0	0	0	272,041	18,079,200	0	18,351,241
2. Other Project Costs							
a.Land/existing facility acquisition							-
b.Professional Fees				1,396,897	382,720	47,840	1,827,457
c.Fire Marshall Fees				47,840			47,840
d.Inspection Services				391,722			391,722
e.Insurance Consultant				9,917			9,917
f.Surveys & Tests				45,000			45,000
g.Permit/Impact/Environmental Fees				85,063			85,063
h.Artwork					100,000		100,000
i.Moveable Furnishings & Equipment						2,392,000	2,392,000
j.Project Contingency				191,360	956,800		1,148,160
Total - Other Project Costs	-	-	-	2,167,799	1,439,520	2,439,840	6,047,159
ALL COSTS 1+2	0	0	0	2,439,840	19,518,720	2,439,840	24,398,400

Appropriations to Date Source	Fiscal Year	Amount
PECO	2012-13	0
TOTAL		-

Project Costs Beyond CIP Period Source	Fiscal Year	Amount
TOTAL		0

Total Project In CIP & Beyond: **24,398,400**

AGENCY University of Central Florida
BUDGET ENTITY SUS
PROJECT TITLE Humanities & Fine Arts II

AGENCY PRIORITY 37
DATE BLDG PROGRAM APPROVED

PURPOSE, NEED, SCOPE, RELATIONSHIP OF PROJECT TO AGENCY OBJECTIVES

A second Humanities & Fine Arts building will be necessary to accommodate the future growth of all the College of Arts and Humanities' diverse departments. We are currently meeting some of our immediate space needs with the upcoming Trevor Colbourn building, however, the TC building does not account for any expansion of future programs and hires, or provide for additional classroom spaces.

SUSTAINABILITY AND LEED

The University of Central Florida is committed to sustainability and continued reduction of energy consumption in new construction projects. As energy costs and demands continue to escalate, achieving higher levels of efficiency has become increasingly important to the university's mission. Since 2007, UCF has mandated LEED certification, with most projects achieving Gold. UCF requires specific individual LEED credits that contribute to UCF's core principles including energy efficiency, water conservation, and indoor air quality for all projects. The Department of Utilities & Energy Services provides oversight for all new construction and major renovation projects, and expedites the commissioning process with the latest industry standards to ensure that the university's sustainability goals are met and design parameters achieved.

Classroom/Office

The space classification is predominately classroom or office type, with laboratory or research type minimized. The project will achieve Gold LEED certification from the U.S. Green Building Council (USGBC). Energy consumption will be at least 30% less than the energy standards cited in ASHRAE 90.1-2007, and water consumption will be at least 30% less than that of a comparable building. The project will utilize the district cooling loop for space cooling needs and look at alternative measures to provide dehumidification with the classifications of classroom and offices and related energy use. All heating and reheating will be hydronic.

EDUCATIONAL PLANT SURVEY

The Educational Plant Survey has not been addressed for this project. As the planning year approaches, this project will be addressed.

STATE UNIVERSITY SYSTEM
CIP-3 SHORT TERM PROJECT EXPLANATION

GEOGRAPHIC LOCATION: University of Central Florida, Orlando
COUNTY: Orange
PROJECT DESCRIPTION/TITLE: Humanities and Fine Arts II
PROJECT BR No. (if assigned):___

Facility/Space Type	Net Area (NASF)	Net to Gross Conversion	Gross Area (GSF)	Unit Cost (Cost/GSF)*	Construction Cost	Assumed Bid Date	Occupancy Date
Classrooms	7,000	1.5	10,500	274	2,877,000		
Teaching Labs	7,340	1.5	11,010	268	2,950,680		
Research Labs		1.5	0	375	0		
Study		1.4	0	286	0		
Instructional Media		1.5	0	213	0		
Auditorium/Exhibition		1.2	0	310	0		
Gymnasiums		1.2	0	225	0		
Offices	26,384	1.5	39,576	284	11,239,584		
Campus Support Services		1.4	0	276	0		
Totals	40,724		61,086		17,067,264		

*Apply Unit Cost to total GSF based on primary space type

Remodeling/Renovation

Total Construction - New & Rem./Renov. 17,067,264

Space Detail for Remodeling Projects

BEFORE		AFTER	
Space Type	Net Area (NASF)	Space Type	Net Area (NASF)
Total	0	Total	0

SCHEDULE OF PROJECT COMPONENTS — ESTIMATED COSTS

Basic Construction Cost	Funded to Date	2016-17	2017-18	2018-19	2019-2020	2020-21	Funded & In CIP
1. a.Construction Cost (from above)					17,067,264		17,067,264
Add'l/Extraordinary Const. Costs							-
b.Environmental Impacts/Mitigation							-
c.Site Preparation				235,096	-		235,096
d.Landscape/Irrigaiton				200,000			200,000
e.Plaza/Walks							-
f.Roadway Improvements							-
g.Parking ___ spaces							-
h.Telecommunication				250,000			250,000
i.Electrical Service							-
j.Water Distribution							-
k.Sanitary Sewer System							-
l.Chilled Water System							-
m.Storm Water System							-
n.Energy Efficient Equipment							-
Total Construction Costs	0	0	0	685,096	17,067,264	0	17,752,360
2. Other Project Costs							
a.Land/existing facility acquisition							-
b.Professional Fees				1,502,845		57,665	1,560,510
c.Fire Marshall Fees				47,019			47,019
d.Inspection Services				378,249			378,249
e.Insurance Consultant				10,240			10,240
f.Surveys & Tests				45,000			45,000
g.Permit/Impact/Environmental Fees				84,387			84,387
h.Artwork					100,000		100,000
i.Moveable Furnishings & Equipment						2,883,247	2,883,247
j.Project Contingency				188,076	930,653		1,118,729
Total - Other Project Costs	-	-	-	2,255,816	1,030,653	2,940,912	6,227,381
ALL COSTS 1+2	0	0	0	2,940,912	18,097,917	2,940,912	23,979,741

Appropriations to Date Source	Fiscal Year	Amount
PECO	2012-13	0
TOTAL		-

Project Costs Beyond CIP Period Source	Fiscal Year	Amount
TOTAL		0

Total Project In CIP & Beyond: 23,979,741

23,979,741

AGENCY University of Central Florida
BUDGET ENTITY SUS
PROJECT TITLE Social Sciences Facility

AGENCY PRIORITY 38
DATE BLDG PROGRAM APPROVED

PURPOSE, NEED, SCOPE, RELATIONSHIP OF PROJECT TO AGENCY OBJECTIVES

A Social Sciences building will consolidate three College of Sciences units in a department-oriented facility, simplifying administrative functions for the College. The building will feature classrooms, teaching labs, research labs, and faculty and staff offices. Centralized and specialized Physical, Medical, and Forensic Anthropology teaching lab and research lab spaces will be needed, as current space is limited, shared, and located in multiple buildings on- and off-campus.

The Anthropology, Political Science, and Sociology departments currently occupy the two upper floors of Howard Phillips Hall, which is at maximum usage. The consolidation of these departments in the new facility will enable other departments from Academic Affairs and Student Affairs, which currently occupy the lower two floors of Howard Phillips Hall, to expand into the vacated spaces while remaining close to Millican Hall (Administration).

Delays in construction will inhibit the College in meeting university demands for teaching and research. Increased space and specific research laboratory spaces for these departments are essential to garner additional research funding and to accommodate the new and growing doctoral programs in Political Science and Sociology and a new anticipated Ph.D. degree in Anthropology.

SUSTAINABILITY AND LEED

The University of Central Florida is committed to sustainability and continued reduction of energy consumption in new construction projects. As energy costs and demands continue to escalate, achieving higher levels of efficiency has become increasingly important to the university's mission. Since 2007, UCF has mandated LEED certification, with most projects achieving Gold. UCF requires specific individual LEED credits that contribute to UCF's core principles including energy efficiency, water conservation, and indoor air quality for all projects. The Department of Utilities & Energy Services provides oversight for all new construction and major renovation projects, and expedites the commissioning process with the latest industry standards to ensure that the university's sustainability goals are met and design parameters achieved.

Classroom/Office

The space classification is predominately classroom or office type, with laboratory or research type minimized. The project will achieve Gold LEED certification from the U.S. Green Building Council (USGBC). Energy consumption will be at least 30% less than the energy standards cited in ASHRAE 90.1-2007, and water consumption will be at least 30% less than that of a comparable building. The project will utilize the district cooling loop for space cooling needs and look at alternative measures to provide dehumidification with the classifications of classroom and offices and related energy use. All heating and reheating will be hydronic.

EDUCATIONAL PLANT SURVEY

The Educational Plant Survey has not been addressed for this project. As the planning year approaches, this project will be addressed.

STATE UNIVERSITY SYSTEM
CIP-3 SHORT TERM PROJECT EXPLANATION

Page ___of ___

GEOGRAPHIC LOCATION: University of Central Florida, Orlando
COUNTY: Orange
PROJECT DESCRIPTION/TITLE: Social Sciences Facility
PROJECT BR No. (if assigned):____

Facility/Space Type	Net Area (NASF)	Net to Gross Conversion	Gross Area (GSF)	Unit Cost (Cost/GSF)*	Construction Cost	Assumed Bid Date	Occupancy Date
Classrooms	20,150	1.5	30,225	274	8,281,650		
Teaching Labs	3,000	1.5	4,500	268	1,206,000		
Research Labs		1.5	0	375	0		
Study		1.4	0	286	0		
Instructional Media		1.5	0	213	0		
Auditorium/Exhibition	7,000	1.2	8,400	310	2,604,000		
Gymnasiums		1.2	0	225	0		
Offices	11,550	1.5	17,325	284	4,920,300		
Campus Support Serv	3,000	1.4	4,200	276	1,159,200		
Totals	44,700		64,650		18,171,150		

*Apply Unit Cost to total GSF based on primary space type

Space Detail for Remodeling Projects

BEFORE		AFTER	
Space Type	Net Area (NASF)	Space Type	Net Area (NASF)
Total	0	Total	0

Remodeling/Renovation

Total Construction - New & Rem./Renov. 18,171,150

SCHEDULE OF PROJECT COMPONENTS — ESTIMATED COSTS

Basic Construction Cost	Funded to Date	2016-17	2017-18	2018-19	2019-2020	2020-21	Funded & In CIP
1. a.Construction Cost (from above)					18,171,150		18,171,150
Add'l/Extraordinary Const. Costs							-
b.Environmental Impacts/Mitigation							-
c.Site Preparation					250,000		250,000
d.Landscape/Irrigaiton					200,000		200,000
e.Plaza/Walks							-
f.Roadway Improvements							-
g.Parking ___ spaces							-
h.Telecommunication					250,000		250,000
i.Electrical Service							-
j.Water Distribution							-
k.Sanitary Sewer System							-
l.Chilled Water System							-
m.Storm Water System							-
n.Energy Efficient Equipment							-
Total Construction Costs	0	0	0	0	18,871,150	0	**18,871,150**
2. Other Project Costs							
a.Land/existing facility acquisition							-
b.Professional Fees				1,798,546	397,810	49,920	2,246,276
c.Fire Marshall Fees				49,920			49,920
d.Inspection Services				355,093			355,093
e.Insurance Consultant				10,902			10,902
f.Surveys & Tests				45,000			45,000
g.Permit/Impact/Environmental Fees				86,779			86,779
h.Artwork					100,000		100,000
i.Moveable Furnishings & Equipment						2,496,000	2,496,000
j.Project Contingency				199,680	998,400		1,198,080
Total - Other Project Costs	-	-	-	2,545,920	1,496,210	2,545,920	**6,588,050**
ALL COSTS 1+2	0	0	0	2,545,920	20,367,360	2,545,920	25,459,200

Appropriations to Date Source	Fiscal Year	Amount
PECO	2011-12	0
TOTAL		-

Project Costs Beyond CIP Period Source	Fiscal Year	Amount
TOTAL		0

Total Project In CIP & Beyond: **25,459,200**

AGENCY University of Central Florida
BUDGET ENTITY SUS
PROJECT TITLE Utilities Infrastructure and Site Work Lake Nona

AGENCY PRIORITY 39
DATE BLDG PROGRAM

APPROVED

PURPOSE, NEED, SCOPE, RELATIONSHIP OF PROJECT TO AGENCY OBJECTIVES

The Lake Nona campus is served by the Orlando Utilities Commission (OUC), a municipally owned public utility that provides electric, water, re-claimed water, and chilled water. Coordination between OUC and the design team early in pre-design will be imperative to ensure adequate capacities and reserve demand are available for both distribution infrastructure and generation sites from the utility. Where possible, master metering should be employed for electric, water, re-claimed and chilled water to reduce cost with the serving utility providers. Utility-grade sub meters must be installed to account for consumption across the various tenants or mixed use spaces to ensure correct cost recovery from direct service organizations and auxiliaries.

AGENCY University of Central Florida
BUDGET ENTITY SUS
PROJECT TITLE Coastal Biology Station

AGENCY PRIORITY 40
DATE BLDG PROGRAM APPROVED

PURPOSE, NEED, SCOPE, RELATIONSHIP OF PROJECT TO AGENCY OBJECTIVES

The UCF Marine Turtle Research Group (UCFMTRG) has conducted research at the Archie Carr National Wildlife Refuge (ACNWR), adjacent beaches, and in coastal and inland waters for over 30 years. Data collected by this program were instrumental in establishing the ACNWR in 1991. The refuge and coastal habitats support the most significant, densely nested loggerhead sea turtle rookery in the Western Hemisphere, and among the most important green turtle and leatherback nesting habitats in North America. The UCFMTRG houses one of the longest and largest sea turtle datasets in the world. This dataset is essential to international, federal, and state managers tasked with the protection and recovery of endangered and threatened sea turtle populations, including populations utilizing central Florida's terrestrial and marine habitats.

The UCFMTRG field sites are located over 70 miles from the UCF campus in Orlando. Due to long field days, nighttime nesting beach surveys, and the storage and transport of heavy equipment (e.g., 4 boats, 4 trucks, 12+ ATVs), it is not practical or safe for students, Principle Investigators (PIs), and staff to commute between campus and the coast at all hours of the day or night. Historically, the ACNWR and Brevard County provided housing and equipment storage for the turtle program; however, given federal budgets and dwindling resources, this is no longer a viable option, nor are there other, feasible alternatives that would ensure the long-term presence and viability of a facility to support UCFMTRG activities. Additionally, the U.S. Fish & Wildlife Service has recently demolished the beach side building which has served for over 30 years as the housing and research staging facility for its UCFMTRG activities. Thus, it is critical to the continuance of this valued research program that new housing/research facilities be constructed at this location.

The continued success and survival of the UCFMTRG is dependent on the development of a dedicated coastal field station or field complex in proximity to the ACNWR. Without a strong presence on the coast, and without the resources needed to successfully fulfill federal and county contracts, the UCFMTRG may lose grants and contracts to other universities, consulting groups, and agencies. Such a loss would undermine the value of the 30+ year UCF sea turtle dataset and research program, to the detriment of sea turtle conservation as well as UCF's standing as an international leader in sea turtle research.

A coastal biology facility or complex will provide housing and equipment storage for the UCFMTRG; support coastal research (both in-water and terrestrial); and provide a hands-on, experiential education platform that can be used by K-12, undergraduate, graduate, and professional educational and training programs. Specifically, the facility will:

1) Provide housing and equipment storage for the UCFMTRG including:
    - A bunkhouse to support nighttime and seasonal nesting beach research, including up to 12 UCFMTRG personnel (graduate students and undergraduate interns). This bunkhouse can be used in the off-season by visiting school groups, field classes, Research Experience for Undergraduates (REU) programs, U.S. Fish & Wildlife Service, etc.
    - Additional PI and visiting scientist quarters, separate from a student bunkhouse. Visiting scientist quarters will promote national and international collaborations and broaden the research scope of the UCFMTRG.
    - Storage space for boats, trucks, ATVs, nets, and other field equipment out of the elements to better preserve equipment and promote safe use of equipment in the long-term.
    - A small, functional workshop to make and maintain/repair field equipment; space to properly wash and service field equipment.
    - A facility will allow for new funding/grant opportunities by providing adequate housing for educational activities (e.g., REU, research staging, and secure storage of research equipment and vehicles).

2) Enhance UCF's sea turtle and coastal research programs including:
    - A functional wet-lab available for use by student researchers, visiting scientists, and classes (K-12, undergraduate and graduate).
    - Lab space to also serve as temporary triage area for mass sea turtle (or other marine mammal) stranding or cold-stun events, assisting federal and state agencies during periods of unusual mortality, and conservation activities.
    - Office space with computer access to the UCF network for MTRG data entry and management, as well as for use by visiting scientists. This will facilitate scientific advisory service; and will promote the real-time reporting of nesting beach activities to federal, state, and county agencies.
    - A facility will allow for new research grant opportunities by providing adequate space and equipment for research activities.
    - Allowing for the creation of a center for "whole life history" sea turtle research in one of the world's most important nesting and foraging habitats. This will expand UCF's collaborative ties with regional, national, and international researchers and agencies.
    - Providing space (e.g., rooftop) for deployment of technologies to sample environmental data (temperature, rainfall, etc.), radio tracking listening stations, and other remote sensing equipment to enhance field data collection, and to establish a base-line coastal monitoring program to better understand the effects of storm events, coastal nourishment activities, and climate change/sea level rise over time.

3) Enhance and expand UCF's education and research capacity, including:

- Expanding student opportunities for educational, work, and research experience for students pursuing degrees in biology, conservation, chemistry, physics, engineering, and environmental studies, among others.
- Providing space for short-term, on-location, and hands-on training programs (telemetry workshops, wildlife handling, veterinary practices, coastal ecosystem sampling, etc.) to the UCF community as well as outside groups.
- Allowing for new research grant opportunities by providing adequate space and equipment for educational activities.
- Promoting UCF's innovative science and research activities through a small, self-guided visitor/outreach center.
- Encouraging public support and donations through educational outreach activities, elevating UCF's research and educational opportunities through public programs and a small visitor center.
- Creating a classroom/meeting room space to provide educational opportunities for K-12, undergraduate, and graduate students, as well as professional training programs.

A new facility/complex will solidify UCF's standing as a primary sea turtle research institution. It will provide the foundation for the UCFMTRG to evolve to incorporate new technological, educational and training programs; promote international relevancy and collaborations; and provide a platform for new coastal research and educational programs. This facility will promote UCF's commitment to achieving international prominence in key areas of graduate study and research, and fulfilling its state charters in education and training.

SUSTAINABILITY AND LEED

The University of Central Florida is committed to sustainability and continued reduction of energy consumption in new construction projects. As energy costs and demands continue to escalate, achieving higher levels of efficiency has become increasingly important to the university's mission. Since 2007, UCF has mandated LEED certification, with most projects achieving Gold. UCF requires specific individual LEED credits that contribute to UCF's core principles including energy efficiency, water conservation, and indoor air quality for all projects. The Department of Utilities & Energy Services provides oversight for all new construction and major renovation projects, and expedites the commissioning process with the latest industry standards to ensure that the university's sustainability goals are met and design parameters achieved.

Research/Laboratory

The space classification is predominately laboratory type, with office type minimized. The project will achieve LEED Gold certification with the U.S. Green Building Council (USGBC). Energy consumption will be at least 30% less than the energy standards cited in ASHRAE 90.1-2007, and water consumption will be at least 30% less than that of a comparable building. Laboratories will have continuous variable air flow valves with air flow reset capabilities. Domestic and laboratory hot water needs will be provided primarily by solar thermal energy. All heating and reheating will be hydronic.

EDUCATIONAL PLANT SURVEY

The Educational Plant Survey has not been addressed for this project. As the planning year approaches, this project will be addressed.

STATE UNIVERSITY SYSTEM
CIP-3 SHORT TERM PROJECT EXPLANATION

GEOGRAPHIC LOCATION: University of Central Florida, Orlando
COUNTY: Orange
PROJECT DESCRIPTION/TITLE: Coastal Biology Station
PROJECT BR No. (if assigned):____

Facility/Space Type	Net Area (NASF)	Net to Gross Conversion	Gross Area (GSF)	Unit Cost (Cost/GSF)*	Construction Cost	Assumed Bid Date	Occupancy Date
Classrooms	1,200	1.5	1,800	274	493,200		
Teaching Labs	0	1.5	0	268	0		
Research Labs	850	1.5	1,275	375	478,125		
Study	500	1.4	700	286	200,200		
Instructional Media		1.5	0	213	0		
Auditorium/Exhibition		1.2	0	310	0		
Gymnasiums	1,200	1.2	1,440	225	324,000		
Offices	1,000	1.5	1,500	284	426,000		
Campus Support Services	4,750	1.4	6,650	276	1,835,400		
Totals	17,544		26,316		3,756,925		

*Apply Unit Cost to total GSF based on primary space type

Space Detail for Remodeling Projects

BEFORE		AFTER	
Space Type	Net Area (NASF)	Space Type	Net Area (NASF)

Remodeling/Renovation

Total Construction - New & Rem./Renov. 3,756,925 Total 0 Total 0

SCHEDULE OF PROJECT COMPONENTS — ESTIMATED COSTS

Basic Construction Cost	Funded to Date	2016-17	2017-18	2018-19	2019-20	2020-21	Funded & In CIP
1. a.Construction Cost (from above)				3,756,925			3,756,925
Add'l/Extraordinary Const. Costs							-
b.Environmental Impacts/Mitigation							-
c.Site Preparation				100,000			100,000
d.Landscape/Irrigaiton				-			-
e.Plaza/Walks							-
f.Roadway Improvements							-
g.Parking ___ spaces							-
h.Telecommunication				75,000			75,000
i.Electrical Service							-
j.Water Distribution							-
k.Sanitary Sewer System							-
l.Chilled Water System							-
m.Storm Water System							-
n.Energy Efficient Equipment							-
Total Construction Costs	0	0	0	3,931,925	0	0	3,931,925
2. Other Project Costs							
a.Land/existing facility acquisition							-
b.Professional Fees				405,668			405,668
c.Fire Marshall Fees				10,400			10,400
d.Inspection Services				72,510			72,510
e.Insurance Consultant				9,971			9,971
f.Surveys & Tests				25,000			25,000
g.Permit/Impact/Environmental Fees				42,955			42,955
h.Artwork				26,000			26,000
i.Moveable Furnishings & Equipment				520,000			520,000
j.Project Contingency				259,571			259,571
Total - Other Project Costs	-	-	-	1,372,075	-	-	1,372,075
ALL COSTS 1+2	0	0	0	5,304,000	0	0	5,304,000

Appropriations to Date Source	Fiscal Year	Amount	Project Costs Beyond CIP Period Source	Fiscal Year	Amount	Total Project In CIP & Beyond
		0				
TOTAL		-	TOTAL		0	5,304,000

AGENCY University of Central Florida
BUDGET ENTITY SUS
PROJECT TITLE UCF Health Expansion

AGENCY PRIORITY 41
DATE BLDG PROGRAM APPROVED

PURPOSE, NEED, SCOPE, RELATIONSHIP OF PROJECT TO AGENCY OBJECTIVES

The UCF Health Expansion is a multi-phase project, as there is a need to expand patient care offerings beyond the current clinical sites. Phase 1 will provide a basis for ambulatory and key ancillary services for patient care, and will locate doctors, allied health professionals, and learners within walking distance of the College of Medicine and other facilities at the Lake Nona Medical City. Public spaces include conference and multiple educational spaces for patients, and interdisciplinary opportunities in education and patient care. Future phases will address both education and patient care.

SUSTAINABILITY AND LEED

The University of Central Florida is committed to sustainability and continued reduction of energy consumption in new construction projects. As energy costs and demands continue to escalate, achieving higher levels of efficiency has become increasingly important to the university's mission. Since 2007, UCF has mandated LEED certification, with most projects achieving Gold. UCF requires specific individual LEED credits which contribute to UCF's core principles including energy efficiency, water conservation, and indoor air quality for all projects. The Department of Utilities & Energy Services provides oversight for all new construction and major renovation projects, and expedites the commissioning process with the latest industry standards to ensure the university's sustainability goals are met and design parameters achieved.

Classroom/Office

The space classification is Clinical Practice, Clinical Lab, and supporting services. There will be a need for some offices, collaborative meeting spaces for all disciplines treating patients and academic support. The project will achieve LEED certification from the U.S. Green Building Council (USGBC).

EDUCATIONAL PLANT SURVEY

As the planning year approaches, the Educational Plant Survey for this project will be addressed.

STATE UNIVERSITY SYSTEM
CIP-3 SHORT TERM PROJECT EXPLANATION

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GEOGRAPHIC LOCATION: University of Central Florida, Orlando
COUNTY: Orange
PROJECT DESCRIPTION/TITLE: UCF Health Expansion
PROJECT BR No. (if assigned):____

Facility/Space Type	Net Area (NASF)	Net to Gross Conversion	Gross Area (GSF)	Unit Cost (Cost/GSF)*	Construction Cost	Assumed Bid Date	Occupancy Date
Classrooms		1.5	0	274	0		
Teaching Labs	5,000	1.5	7,500	268	2,010,000		
Research Labs	8,500	1.5	12,750	375	4,781,250		
Study		1.4	0	286	0		
Instructional Media		1.5	0	213	0		
Auditorium/Exhibition		1.2	0	310	0		
Gymnasiums		1.2	0	225	0		
Offices	1,000	1.5	1,500	284	426,000		
Campus Support Services		1.4	0	276	0		
Totals	14,500		21,750		7,217,250		

*Apply Unit Cost to total GSF based on primary space type

Remodeling/Renovation

Total Construction - New & Rem./Renov. 0

Space Detail for Remodeling Projects

BEFORE		AFTER	
Space Type	Net Area (NASF)	Space Type	Net Area (NASF)
Offices	3000	Offices	3000
Auditorium/Exb	8000	Auditorium/Exb	8000
Teaching Labs	5000	Teaching Labs	5000
Total	0	Total	16000

SCHEDULE OF PROJECT COMPONENTS — ESTIMATED COSTS

Basic Construction Cost	Funded to Date	2016-17	2017-18	2018-19	2019-20	2020-21	Funded & In CIP
1. a.Construction Cost (from above)					7,217,250		7,217,250
Add'l/Extraordinary Const. Costs							-
b.Environmental Impacts/Mitigation							-
c.Site Preparation				100,024	250,000		350,024
d.Landscape/Irrigaiton					200,000		200,000
e.Plaza/Walks							-
f.Roadway Improvements							-
g.Parking ___ spaces							-
h.Telecommunication				50,000	184,750		234,750
i.Electrical Service							-
j.Water Distribution							-
k.Sanitary Sewer System							-
l.Chilled Water System							-
m.Storm Water System							-
n.Energy Efficient Equipment							-
Total Construction Costs	0	0	0	150,024	7,852,000	0	**8,002,024**
2. Other Project Costs							
a.Land/existing facility acquisition							-
b.Professional Fees				577,567			577,567
c.Fire Marshall Fees				14,139	166400		180,539
d.Inspection Services				100,000			100,000
e.Insurance Consultant				4,291			4,291
f.Surveys & Tests				45,000			45,000
g.Permit/Impact/Environmental Fees				86,779			86,779
h.Artwork				-	52,000		52,000
i.Moveable Furnishings & Equipment						1,060,800	1,060,800
j.Project Contingency				83000	416,000		499,000
Total - Other Project Costs	-	-	-	910,776	634,400	1,060,800	**2,605,976**
ALL COSTS 1+2	0	0	0	1,060,800	8,486,400	1,060,800	10,608,000

Appropriations to Date Source	Fiscal Year	Amount
		0
TOTAL		-

Project Costs Beyond CIP Period Source	Fiscal Year	Amount
TOTAL		0

Total Project In CIP & Beyond: 10,608,000

AGENCY University of Central Florida
BUDGET ENTITY SUS
PROJECT TITLE Technology Commons II Renovation

AGENCY PRIORITY 42
DATE BLDG PROGRAM

APPROVED

PURPOSE, NEED, SCOPE, RELATIONSHIP OF PROJECT TO AGENCY OBJECTIVES

The renovation of Technology Commons II is necessary to accommodate and meet the needs of Computer Services and Telecommunications, Computer Science, and Statistics.

A prior partial renovation of Tech Commons I and II replaced first floor air handling units, duct work, chilled water pumps, variable frequency drives, switch gear, and valves, and lighting. Second floor renovations replaced the air handling unit, outside air dampers and variable frequency drives.

The second floor requires HVAC upgrades that include new variable air volume and fan power boxes; new bathroom exhaust fans; cleaning of duct work, replacement of inside lined duct work with metal, exterior wrapped insulated ductwork exterior; lighting upgrades; complete bathroom renovation; carpeting; and standardization of exit lighting.

The wireless network needs to be upgraded with additional access points.

SUSTAINABILITY AND LEED

The University of Central Florida is committed to sustainability and continued reduction of energy consumption in new construction projects. As energy costs and demands continue to escalate, achieving higher levels of efficiency has become increasingly important to the university's mission. Since 2007, UCF has mandated LEED certification, with most projects achieving Gold. UCF requires specific individual LEED credits that contribute to UCF's core principles including energy efficiency, water conservation, and indoor air quality for all projects. The Department of Utilities & Energy Services provides oversight for all new construction and major renovation projects, and expedites the commissioning process with the latest industry standards to ensure that the university's sustainability goals are met and design parameters achieved.

Classroom/Office

The space classification is predominately classroom or office type, with laboratory or research type minimized. The project will achieve Gold LEED certification from the U.S. Green Building Council (USGBC). Energy consumption will be at least 30% less than the energy standards cited in ASHRAE 90.1-2007, and water consumption will be at least 30% less than that of a comparable building. The project will utilize the district cooling loop for space cooling needs and look at alternative measures to provide dehumidification with the classifications of classroom and offices and related energy use. All heating and reheating will be hydronic.

EDUCATIONAL PLANT SURVEY

The Educational Plant Survey has not been addressed for this project. As the planning year approaches, this project will be addressed.

STATE UNIVERSITY SYSTEM
CIP-3 SHORT TERM PROJECT EXPLANATION

Page ___of ___

GEOGRAPHIC LOCATION: University of Central Florida, Orlando
COUNTY: Orange
PROJECT DESCRIPTION/TITLE: Technology Commons II Renovation
PROJECT BR No. (if assigned):___

Facility/Space Type	Net Area (NASF)	Net to Gross Conversion	Gross Area (GSF)	Unit Cost (Cost/GSF)*	Construction Cost	Assumed Bid Date	Occupancy Date
Classrooms		1.5	0	274	0		
Teaching Labs		1.5	0	268	0		
Research Labs		1.5	0	375	0		
Study		1.4	0	286	0		
Instructional Media		1.5	0	215	0		
Auditorium/Exhibition		1.2	0	310	0		
Gymnasiums		1.2	0	225	0		
Offices		1.5	0	284	0		
Campus Support Services		1.4	0	276	0		
Totals	0		0		0		
*Apply Unit Cost to total GSF based on primary space type							
Remodeling/Renovation	6,570		9,855		2,247,616		
Total Construction - New & Rem./Renov.					2,247,616		

Space Detail for Remodeling Projects

BEFORE		AFTER	
Space Type	Net Area (NASF)	Space Type	Net Area (NASF)
Offices	6,570	Offices	6,570
Total	6,570	Total	6,570

SCHEDULE OF PROJECT COMPONENTS — ESTIMATED COSTS

Basic Construction Cost	Funded to Date	2016-17	2017-18	2018-19	2019-2020	2020-21	Funded & In CIP
1. a.Construction Cost (from above)					2,247,616		2,247,616
Add'l/Extraordinary Const. Costs							-
b.Environmental Impacts/Mitigation							-
c.Site Preparation							-
d.Landscape/Irrigaiton					-		-
e.Plaza/Walks							-
f.Roadway Improvements							-
g.Parking ___ spaces							-
h.Telecommunication					-		-
i.Electrical Service							-
j.Water Distribution							-
k.Sanitary Sewer System							-
l.Chilled Water System							-
m.Storm Water System							-
n.Energy Efficient Equipment							-
Total Construction Costs	0	0	0	0	2,247,616	0	2,247,616
2. Other Project Costs							
a.Land/existing facility acquisition							-
b.Professional Fees					267,666		267,666
c.Fire Marshall Fees					6,611		6,611
d.Inspection Services					8,353		8,353
e.Insurance Consultant					1,349		1,349
f.Surveys & Tests					-		-
g.Permit/Impact/Environmental Fees					27,611		27,611
h.Artwork					-		-
i.Moveable Furnishings & Equipment					185,562		185,562
j.Project Contingency					409,781		409,781
Total - Other Project Costs	-	-	-	-	906,933	-	906,933
ALL COSTS 1+2	0	0	0	0	3,154,549	0	3,154,549

Appropriations to Date Source	Fiscal Year	Amount	Project Costs Beyond CIP Period Source	Fiscal Year	Amount	Total Project In CIP & Beyond
PECO	2012-13	0				3,154,549
TOTAL		-	TOTAL		0	3,154,549

AGENCY University of Central Florida
BUDGET ENTITY SUS
PROJECT TITLE College of Sciences Building Renovation

AGENCY PRIORITY 43
DATE BLDG PROGRAM
APPROVED

PURPOSE, NEED, SCOPE, RELATIONSHIP OF PROJECT TO AGENCY OBJECTIVES

The College of Sciences building was constructed in 1996 and is 54,644 GSF. The facility contains offices, computer rooms, support spaces, and an auditorium. The HVAC system is part of the original design and does not effectively maintain temperature and humidity in classrooms, offices, and computer server areas. A test and balance needs to be conducted. The renovation of this building will address indoor air quality issues.

The university contracted with the ISES Corporation to conduct a Facilities Condition Assessment (FCA) to benchmark the condition of its E&G facilities. The College of Sciences Building renovation will address both critical and non-critical issues identified in the FCA. These issues encompass deficiencies such as indoor air quality, fire alarm modernization, potable water and plumbing distribution systems, electrical service, asbestos, HVAC modernization, lighting upgrades, building automation, ADA compliance, building envelope repairs, interior finishes, flooring, egress, exterior lighting, and utility service entrance upgrades. Information technology upgrades are also required in order to meet current and future requirements.

SUSTAINABILITY AND LEED

The University of Central Florida is committed to sustainability and continued reduction of energy consumption in new construction projects. As energy costs and demands continue to escalate, achieving higher levels of efficiency has become increasingly important to the university's mission. Since 2007, UCF has mandated LEED certification, with most projects achieving Gold. UCF requires specific individual LEED credits that contribute to UCF's core principles including energy efficiency, water conservation, and indoor air quality for all projects. The Department of Utilities & Energy Services provides oversight for all new construction and major renovation projects, and expedites the commissioning process with the latest industry standards to ensure that the university's sustainability goals are met and design parameters achieved.

Classroom/Office

The space classification is predominately classroom or office type, with laboratory or research type minimized. The project will achieve Gold LEED certification from the U.S. Green Building Council (USGBC). Energy consumption will be at least 30% less than the energy standards cited in ASHRAE 90.1-2007, and water consumption will be at least 30% less than that of a comparable building. The project will utilize the district cooling loop for space cooling needs and look at alternative measures to provide dehumidification with the classifications of classroom and offices and related energy use. All heating and reheating will be hydronic.

EDUCATIONAL PLANT SURVEY

The Educational Plant Survey has not been addressed for this project. As the planning year approaches, this project will be addressed.

STATE UNIVERSITY SYSTEM
CIP-3 SHORT TERM PROJECT EXPLANATION

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GEOGRAPHIC LOCATION: University of Central Florida, Orlando
COUNTY: Orange
PROJECT DESCRIPTION/TITLE: College of Sciences Building Renovation
PROJECT BR No. (if assigned):____

Facility/Space Type	Net Area (NASF)	Net to Gross Conversion	Gross Area (GSF)	Unit Cost (Cost/GSF)*	Construction Cost	Assumed Bid Date	Occupancy Date
Classrooms		1.5	0	274	0		
Teaching Labs		1.5	0	268	0		
Research Labs		1.5	0	375	0		
Study		1.4	0	286	0		
Instructional Media		1.5	0	215	0		
Auditorium/Exhibition		1.2	0	310	0		
Gymnasiums		1.2	0	225	0		
Offices		1.5	0	284	0		
Campus Support Services		1.4	0	276	0		
Totals	0		0		0		
*Apply Unit Cost to total GSF based on primary space type							
Remodeling/Renovation	16,998		25,497		2,431,818		
Total Construction - New & Rem./Renov.					2,431,818		

Space Detail for Remodeling Projects

BEFORE		AFTER	
Space Type	Net Area (NASF)	Space Type	Net Area (NASF)
Offices	16,998	Offices	16,998
Total	16,998	Total	16,998

SCHEDULE OF PROJECT COMPONENTS — ESTIMATED COSTS

Basic Construction Cost	Funded to Date	2015-16	2016-17	2017-18	2018-19	2019-2020	Funded & In CIP
1. a.Construction Cost (from above)					2,431,818		2,431,818
Add'l/Extraordinary Const. Costs							-
b.Environmental Impacts/Mitigation							-
c.Site Preparation							-
d.Landscape/Irrigaiton					-		-
e.Plaza/Walks							-
f.Roadway Improvements							-
g.Parking ___ spaces							-
h.Telecommunication					-		-
i.Electrical Service							-
j.Water Distribution							-
k.Sanitary Sewer System							-
l.Chilled Water System							-
m.Storm Water System							-
n.Energy Efficient Equipment							-
Total Construction Costs	0	0	0	0	2,431,818	0	2,431,818
2. Other Project Costs							
a.Land/existing facility acquisition							-
b.Professional Fees					288,721		288,721
c.Fire Marshall Fees					7,152		7,152
d.Inspection Services					10,226		10,226
e.Insurance Consultant					1,459		1,459
f.Surveys & Tests							-
g.Permit/Impact/Environmental Fees					29,567		29,567
h.Artwork							-
i.Moveable Furnishings & Equipment					200,769		200,769
j.Project Contingency					443,366		443,366
Total - Other Project Costs	-	-	-	-	981,260	-	981,260
ALL COSTS 1+2	0	0	0	0	3,413,078	0	3,413,077

Appropriations to Date Source	Fiscal Year	Amount
PECO	2012-13	0
TOTAL		-

Project Costs Beyond CIP Period Source	Fiscal Year	Amount
TOTAL		0

Total Project In CIP & Beyond: 3,413,078

TOTAL: 3,413,077

AGENCY University of Central Florida
BUDGET ENTITY SUS
PROJECT TITLE Simulation & Training Building

AGENCY PRIORITY 44
DATE BLDG PROGRAM APPROVED

PURPOSE, NEED, SCOPE, RELATIONSHIP OF PROJECT TO AGENCY OBJECTIVES

This facility will serve as one of the research homes for the Institute for Simulation and Training (IST) simulation, modeling, and training activities, and particularly for rapidly growing programs in cyber research. For UCF and IST to be able to compete with other research institutions in the simulation field, it must be able to attract quality research faculty, provide modern research facilities, and develop training programs specific to simulation research.

UCF/IST must produce top students through cutting-edge educational and research opportunities to meet the needs of high tech industries.

The facility will:

- Expand educational and work-related opportunities for students pursuing degrees associated with modeling, simulation, team performance, advanced methods of training delivery, and future learning environments; in particular, the newly-established MS and PhD programs in Simulation and Modeling
- Provide laboratory and office space for the rapidly expanding research and development programs, as well as multiple disciplines in modeling, simulation, and training, immersive environments and mobile learning
- Allow UCF to fulfill its state charter as the Center of Excellence in Simulation and Training by focusing its broad range of academic and research efforts through more specialized programs and projects
- Allow for additional outside funding opportunities by providing adequate space and equipment for basic and applied research
- Highlight UCF's commitment to establish Central Florida as the National Center for Simulation.
- Expand traditional modeling and simulation into new areas such as medical team simulation and international cultural dynamics, significantly impacting health care scenarios and international relations and business
- Promote research in multimodal interaction to include multicultural speech, gestures, high level dialogue, health, counseling, and lifestyle decisions to understand probable outcomes and develop intervention scenarios
- Create a Cultural Modeling Center of Excellence to further expand research in recognizing and simulating body language (hostility, fear, suspicion, and personal space issues) and social customs, as well as cultural aspects of the social environment for various groups. The Center will research how individuals and groups react, and foster advances in dynamic agents, robots, and autonomous vehicles.

Without this facility, significant research projects and programs cannot be accommodated, and research funding will be lost to other institutions. The Simulation and Training Building will be integral to the academic experience, preparing students to compete for local simulation and training jobs within the high-technology pool.

SUSTAINABILITY AND LEED

The University of Central Florida is committed to sustainability and continued reduction of energy consumption in new construction projects. As energy costs and demands continue to escalate, achieving higher levels of efficiency has become increasingly important to the university's mission. Since 2007, UCF has mandated LEED certification, with most projects achieving Gold. UCF requires specific individual LEED credits that contribute to UCF's core principles including energy efficiency, water conservation, and indoor air quality for all projects. The Department of Utilities & Energy Services provides oversight for all new construction and major renovation projects, and expedites the commissioning process with the latest industry standards to ensure that the university's sustainability goals are met and design parameters achieved.

Research/Laboratory

The space classification is predominately laboratory type, with office type minimized. The project will achieve LEED Gold certification with the U.S. Green Building Council (USGBC). Energy consumption will be at least 30% less than the energy standards cited in ASHRAE 90.1-2007, and water consumption should be at least 30% less than that of a comparable building. Laboratories will have continuous variable air flow valves with air flow reset capabilities. Domestic and laboratory hot water needs shall be provided primarily by solar thermal energy. The project will utilize the district cooling loop for space cooling needs and look at alternative measures to provide dehumidification with the classifications of lab spaces and related energy use. All heating and reheating will be hydronic.

Classroom/Office

Despite the fact that this building's space classification is predominately research and laboratory, there are also a significant number of classrooms and offices in the building.

EDUCATIONAL PLANT SURVEY

The Educational Plant Survey has not been addressed for this project. As the planning year approaches, this project will be addressed.

STATE UNIVERSITY SYSTEM
CIP-3 SHORT TERM PROJECT EXPLANATION

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GEOGRAPHIC LOCATION: University of Central Florida, Orlando
COUNTY: Orange
PROJECT DESCRIPTION/TITLE: Simulation and Training Building
PROJECT BR No. (if assigned):____

Facility/Space Type	Net Area (NASF)	Net to Gross Conversion	Gross Area (GSF)	Unit Cost (Cost/GSF)*	Construction Cost	Assumed Bid Date	Occupancy Date
Classrooms	7,000	1.5	7,002	274	1,918,411		
Teaching Labs	4,000	1.5	4,002	268	1,072,402		
Research Labs	29,550	1.5	29,552	375	11,081,813		
Study		1.4	0	286	0		
Instructional Media		1.5	0	213	0		
Auditorium/Exhibition		1.2	0	310	0		
Gymnasiums		1.2	0	225	0		
Offices	11,875	1.5	11,877	284	3,372,926		
Campus Support Services		1.4	0	276	0		
Totals	52,425		52,431		17,445,552		

*Apply Unit Cost to total GSF based on primary space type

Space Detail for Remodeling Projects

BEFORE		AFTER	
Space Type	Net Area (NASF)	Space Type	Net Area (NASF)

Remodeling/Renovation

Total Construction - New & Rem./Renov. 17,445,552 Total 0 Total 0

SCHEDULE OF PROJECT COMPONENTS — ESTIMATED COSTS

Basic Construction Cost	Funded to Date	2016-17	2017-18	2018-19	2019-20	2020-21	Funded & In CIP
1. a.Construction Cost (from above)						17,445,552	17,445,552
Add'l/Extraordinary Const. Costs							-
b.Environmental Impacts/Mitigation							-
c.Site Preparation					200,000	250,000	450,000
d.Landscape/Irrigaiton						236,760	236,760
e.Plaza/Walks							-
f.Roadway Improvements							-
g.Parking ___ spaces							-
h.Telecommunication					153,257	250,000	403,257
i.Electrical Service							-
j.Water Distribution							-
k.Sanitary Sewer System							-
l.Chilled Water System							-
m.Storm Water System							-
n.Energy Efficient Equipment							-
Total Construction Costs	0	0	0	0	353,257	18,182,312	18,535,569
2. Other Project Costs							
a.Land/existing facility acquisition							-
b.Professional Fees					1,460,799	382,936	1,843,735
c.Fire Marshall Fees					43,224		43,224
d.Inspection Services					348,646		348,646
e.Insurance Consultant					9,375		9,375
f.Surveys & Tests					45,000		45,000
g.Permit/Impact/Environmental Fees					81,255		81,255
h.Artwork						100,000	100,000
i.Moveable Furnishings & Equipment							-
j.Project Contingency					172,896	864,478	1,037,374
Total - Other Project Costs	-	-	-	-	2,161,195	1,347,414	3,508,609
ALL COSTS 1+2	0	0	0	0	2,514,452	19,529,726	22,044,178

Appropriations to Date Source	Fiscal Year	Amount
		0
TOTAL		-

Project Costs Beyond CIP Period Source	Fiscal Year	Amount	Total Project In CIP & Beyond
PECO	2020-21	2,514,452	22,044,178
			2,514,452
TOTAL		2,514,452	24,558,630

AGENCY University of Central Florida
BUDGET ENTITY SUS
PROJECT TITLE Business Administration III Building

AGENCY PRIORITY 45
DATE BLDG PROGRAM

APPROVED

PURPOSE, NEED, SCOPE, RELATIONSHIP OF PROJECT TO AGENCY OBJECTIVES

The College of Business Administration (CBA) offers degrees at the bachelor's, master's, doctoral and executive levels. All programs, including the Kenneth G. Dixon School of Accounting, are accredited by The Association to Advance Collegiate Schools of Business (AACSB International). Only 5% of the world's 13,000 business programs have achieved such distinction through rigorous standards of achievement. AACSB-accredited schools are globally recognized for their outstanding mission, faculty contributions, operations and more. Degrees from such schools are constantly increasing in value, giving students a competitive edge.

Business Administration is a Science, Technology, Engineering, and Math (STEM) facility that houses five academic units: the School of Accounting, and the Departments of Economics, Finance, Management, and Marketing. The College of Business Administration serves 7,765 undergraduate and 721 graduate students. Technology plays an integral role in the curriculum through state-of-the-art computer labs, technology support, and multi-media classrooms, and students graduate with the technical knowledge and entrepreneurial skills necessary to compete in today's global marketplace.

Approximately 25% of all course sections are scheduled outside of Business Administration I and II, because the buildings are at capacity. The continued growth in student enrollment along with faculty size requirements mandated by AACSB will necessitate aggressive faculty hiring, and there are no available faculty offices. Since 1999 the College has experienced a serious office space-shortage for faculty and staff. Given expected continued growth in enrollment and student credit hours generated, this situation can only be alleviated in the long term by constructing a significant new facility. Delay or non-approval would be detrimental to the College's ability to best serve students studying Business Administration at the university.

SUSTAINABILITY AND LEED

The University of Central Florida is committed to sustainability and continued reduction of energy consumption in new construction projects. As energy costs and demands continue to escalate, achieving higher levels of efficiency has become increasingly important to the university's mission. Since 2007, UCF has mandated LEED certification, with most projects achieving Gold. UCF requires specific individual LEED credits that contribute to UCF's core principles including energy efficiency, water conservation, and indoor air quality for all projects. The Department of Utilities & Energy Services provides oversight for all new construction and major renovation projects, and expedites the commissioning process with the latest industry standards to ensure that the university's sustainability goals are met and design parameters achieved.

Classroom/Office

The space classification is predominately classroom or office type, with laboratory or research type minimized. The project will achieve Gold LEED certification from the U.S. Green Building Council (USGBC). Energy consumption will be at least 30% less than the energy standards cited in ASHRAE 90.1-2007, and water consumption will be at least 30% less than that of a comparable building. The project will utilize the district cooling loop for space cooling needs and look at alternative measures to provide dehumidification with the classifications of classroom and offices and related energy use. All heating and reheating will be hydronic.

EDUCATIONAL PLANT SURVEY

The Educational Plant Survey has not been addressed for this project. As the planning year approaches, this project will be addressed.

STATE UNIVERSITY SYSTEM
CIP-3 SHORT TERM PROJECT EXPLANATION

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GEOGRAPHIC LOCATION: University of Central Florida, Orlando
COUNTY: Orange
PROJECT DESCRIPTION/TITLE: Business Administration III Building
PROJECT BR No. (if assigned):____

Facility/Space Type	Net Area (NASF)	Net to Gross Conversion	Gross Area (GSF)	Unit Cost (Cost/GSF)*	Construction Cost	Assumed Bid Date	Occupancy Date
Classrooms	14,050	1.5	21,075	274	5,774,550		
Teaching Labs	0	1.5	0	268	0		
Research Labs		1.5	0	375	0		
Study	3,541	1.4	4,957	286	1,417,816		
Instructional Media		1.5	0	213	0		
Auditorium/Exhibition		1.2	0	310	0		
Gymnasiums		1.2	0	225	0		
Offices	10,000	1.5	15,000	284	4,260,000		
Campus Support Services		1.4	0	276	0		
Totals	27,591		41,032		11,452,366		

*Apply Unit Cost to total GSF based on primary space type

Remodeling/Renovation

Total Construction - New & Rem./Renov. 11,452,366

Space Detail for Remodeling Projects

BEFORE		AFTER	
Space Type	Net Area (NASF)	Space Type	Net Area (NASF)
Total	0	Total	0

SCHEDULE OF PROJECT COMPONENTS — ESTIMATED COSTS

Basic Construction Cost	Funded to Date	2016-17	2017-18	2018-19	2019-20	2020-21	Funded & In CIP
1. a.Construction Cost (from above)						11,452,366	11,452,366
Add'l/Extraordinary Const. Costs							-
b.Environmental Impacts/Mitigation							-
c.Site Preparation					100,000	246,802	346,802
d.Landscape/Irrigaiton						200,000	200,000
e.Plaza/Walks							-
f.Roadway Improvements							-
g.Parking ___ spaces							-
h.Telecommunication					182,572	250,000	432,572
i.Electrical Service							-
j.Water Distribution							-
k.Sanitary Sewer System							-
l.Chilled Water System							-
m.Storm Water System							-
n.Energy Efficient Equipment							-
Total Construction Costs	0	0	0	0	282,572	12,149,168	12,431,740
2. Other Project Costs							
a.Land/existing facility acquisition							-
b.Professional Fees					893,772	255,986	1,149,758
c.Fire Marshall Fees					30,952		30,952
d.Inspection Services					237,432		237,432
e.Insurance Consultant					6,125		6,125
f.Surveys & Tests					45,000		45,000
g.Permit/Impact/Environmental Fees					69,435		69,435
h.Artwork						72,236	72,236
i.Moveable Furnishings & Equipment							-
j.Project Contingency					115,578	577,888	693,466
Total - Other Project Costs	-	-	-	-	1,398,294	906,110	2,304,404
ALL COSTS 1+2	0	0	0	0	1,680,866	13,055,278	14,736,145

Appropriations to Date Source	Fiscal Year	Amount
PECO		0
TOTAL		-

Project Costs Beyond CIP Period Source	Fiscal Year	Amount
PECO	2020-21	1,680,866
TOTAL		1,680,866

Total Project In CIP & Beyond
14,736,145
1,680,866
16,417,011

AGENCY University of Central Florida
BUDGET ENTITY SUS
PROJECT TITLE Education II Building

AGENCY PRIORITY 46
DATE BLDG PROGRAM APPROVED

PURPOSE, NEED, SCOPE, RELATIONSHIP OF PROJECT TO AGENCY OBJECTIVES

The College of Education and Human Performance (CEDHP) is fully accredited and meets the rigorous standards of the Council for the Accreditation of Educator Preparation (CAEP) The College is recognized as one of the foremost institutions of its kind, nationally and internationally. Since inception, the CEDHP has impacted nearly 3.4 million Pre-K-12 students, and has strengthened the roles of countless Central Florida educators, who in turn influence the social, economic and societal well-being of our community, the State and beyond. UCF's CEDHP is the leading source of education degrees awarded in the State of Florida. Each year the Florida Department of Education identifies subject areas that are experiencing, or are projected to experience, a critical teacher shortage. The current and projected vacancies in Florida teacher certification areas for 2014-2015 stand at 1,498 of which 880, or 58 percent, are in critical teacher shortage areas. Critical teacher shortage areas for the 2015-16 school year are identified as follows: English, Exceptional Student Education, Reading, Foreign Language, English for Speakers of Other Languages, Science, and Mathematics. UCF is recognized for its scholarly leadership in the education profession, and through curricula and partnerships strives to address teacher shortages throughout the State. UCF must continue to produce professional educators who can competently teach literacy, mathematics and science, global studies, and technology, while addressing the issues of diversity, and personal and social responsibility.

In addition to preparing and renewing professional educators, the CEDHP serves as a hub for significant state centers, programs, and collaborative projects: The Toni Jennings Exceptional Education Institute; the Morgridge International Reading Center (MIRC); the Marriage and Family Research Institute; the Technical Assistance and Training Systems for Programs Serving Pre-K Children w/ Disabilities (TATS) project; TeachLivE, the School Organization and Science Achievement (SOSA) Project; and the MIRC-Istation Project (e-learning program) at UCF. These projects engage faculty, staff and students in teaching, learning, leadership, research and service, and promote partnerships with professional organizations, educational institutions, business, industry, and the community.

CEDPH requires the construction of an Education II Building in close proximity to its Education Complex to meet the demands of the State's educational system. Physical space is a critical factor in developing the potential of the CEDHP and upholding UCF's status as a major metropolitan research university. The facility will enhance the current collaborative ventures that link the CEDHP; the UCF Academy for Teaching; Learning and Leadership, the Morgridge International Reading Center; state colleges; and the public and private schools in the eleven-county Central Florida service area. Leased space is not available within walking distance of the main campus. In addition, the types of spaces required by the various education disciplines are generally not readily available in commercial buildings. Thus, leasing is not an option in this case.

The Education II Building will feature formal and informal learning spaces, and public interactive zones that invite collaboration and spark creativity. Dedicated space for centers and special projects will also be included. This state-of-the-art environment, with full multimedia support, will inspire and enable people to engage in education that is capable of creating the future.

Delay of this project will inhibit further growth of the CEDHP. Without new space it will be impossible to hire enough new faculty lines or meet increasing demands for additional course sections. School systems are expressing the need for more organized and effective approaches to professional development. UCF has been cited as a key reason for the location of business and industry in Central Florida in recent years. Future directions in education should utilize existing resources in Central Florida and the CEDHP at UCF stands ready to meet these new needs and demands.

SUSTAINABILITY AND LEED

The University of Central Florida is committed to sustainability and continued reduction of energy consumption in new construction projects. As energy costs and demands continue to escalate, achieving higher levels of efficiency has become increasingly important to the university's mission. Since 2007, UCF has mandated LEED certification, with most projects achieving Gold. UCF requires specific individual LEED credits that contribute to UCF's core principles including energy efficiency, water conservation, and indoor air quality for all projects. The Department of Utilities & Energy Services provides oversight for all new construction and major renovation projects, and expedites the commissioning process with the latest industry standards to ensure that the university's sustainability goals are met and design parameters achieved.

Classroom/Office

The space classification is predominately classroom or office type, with laboratory or research type minimized. The project will achieve Gold LEED certification from the U.S. Green Building Council (USGBC). Energy consumption will be at least 30% less than the energy standards cited in ASHRAE 90.1-2007, and water consumption will be at least 30% less than that of a comparable building. The project will utilize the district cooling loop for space cooling needs and look at alternative measures to provide dehumidification with the classifications of classroom and offices and related energy use. All heating and reheating will be hydronic.

EDUCATIONAL PLANT SURVEY

The Educational Plant Survey has not been addressed for this project. As the planning year approaches, this project will be addressed.

STATE UNIVERSITY SYSTEM
CIP-3 SHORT TERM PROJECT EXPLANATION

GEOGRAPHIC LOCATION: University of Central Florida, Orlando
COUNTY: Orange
PROJECT DESCRIPTION/TITLE: Education Building II
PROJECT BR No. (if assigned):____

Facility/Space Type	Net Area (NASF)	Net to Gross Conversion	Gross Area (GSF)	Unit Cost (Cost/GSF)*	Construction Cost	Assumed Bid Date	Occupancy Date
Classrooms	17,320	1.5	25,980	274	7,118,520		
Teaching Labs		1.5	0	268	0		
Research Labs		1.5	0	375	0		
Study		1.4	0	286	0		
Instructional Media		1.5	0	213	0		
Auditorium/Exhibition		1.2	0	310	0		
Gymnasiums		1.2	0	225	0		
Offices	18,000	1.5	27,000	284	7,668,000		
Campus Support Services		1.4	0	276	0		
Totals	35,320		52,980		14,786,520		

*Apply Unit Cost to total GSF based on primary space type

Space Detail for Remodeling Projects

BEFORE		AFTER	
Space Type	Net Area (NASF)	Space Type	Net Area (NASF)
Total	0	Total	0

Remodeling/Renovation

Total Construction - New & Rem./Renov. 14,786,520

SCHEDULE OF PROJECT COMPONENTS — ESTIMATED COSTS

Basic Construction Cost	Funded to Date	2016-17	2017-18	2018-19	2019-2020	2020-21	Funded & In CIP
1. a.Construction Cost (from above)						14,786,520	14,786,520
Add'l/Extraordinary Const. Costs							-
b.Environmental Impacts/Mitigation						250,000	250,000
c.Site Preparation							-
d.Landscape/Irrigaiton						200,000	200,000
e.Plaza/Walks							-
f.Roadway Improvements							-
g.Parking ___ spaces							-
h.Telecommunication						250,000	250,000
i.Electrical Service							-
j.Water Distribution							-
k.Sanitary Sewer System							-
l.Chilled Water System							-
m.Storm Water System							-
n.Energy Efficient Equipment							-
Total Construction Costs	0	0	0	0	0	15,486,520	**15,486,520**
2. Other Project Costs							
a.Land/existing facility acquisition							-
b.Professional Fees					1,577,108	229,362	1,806,470
c.Fire Marshall Fees					36,725		36,725
d.Inspection Services					298,122		298,122
e.Insurance Consultant					7,898		7,898
f.Surveys & Tests					45,000		45,000
g.Permit/Impact/Environmental Fees					75,984		75,984
h.Artwork						91,813	91,813
i.Moveable Furnishings & Equipment							-
j.Project Contingency					146,902	734,508	881,410
Total - Other Project Costs	-	-	-	-	2,187,739	1,055,683	**3,243,422**
ALL COSTS 1+2	0	0	0	0	2,187,739	16,542,203	**18,729,942**

Appropriations to Date Source	Fiscal Year	Amount
		0
TOTAL		-

Project Costs Beyond CIP Period Source	Fiscal Year	Amount	Total Project In CIP & Beyond
PECO	2020-21	2,187,739	18,729,942
			2,187,739
TOTAL		2,187,739	20,917,681

AGENCY University of Central Florida
BUDGET ENTITY SUS
PROJECT TITLE Band Building

AGENCY PRIORITY 47
DATE BLDG PROGRAM APPROVED

PURPOSE, NEED, SCOPE, RELATIONSHIP OF PROJECT TO AGENCY OBJECTIVES

The University of Central Florida Bands program serves nearly 400 students, and consists of three concert ensembles and two athletic bands. The program is designed to provide professional training for music education and performance majors, while also serving as a musical outlet for wind and percussion players throughout the university community regardless of major.

The Band Building is needed to provide space for this program: ensemble and individual practice rooms, instrument and uniform storage, a recording studio, a band music library, office space, and a loading dock.

There is no other space on campus that can be used for this program, and leasing additional space of the type needed is not readily available or in proximity to the campus. A new building is the only viable alternative. Delays in construction will prohibit needed space for the marching band and hinder recruitment of new band members.

SUSTAINABILITY AND LEED

The University of Central Florida is committed to sustainability and continued reduction of energy consumption in new construction projects. As energy costs and demands continue to escalate, achieving higher levels of efficiency has become increasingly important to the university's mission. Since 2007, UCF has mandated LEED certification, with most projects achieving Gold. UCF requires specific individual LEED credits that contribute to UCF's core principles including energy efficiency, water conservation, and indoor air quality for all projects. The Department of Utilities & Energy Services provides oversight for all new construction and major renovation projects, and expedites the commissioning process with the latest industry standards to ensure that the university's sustainability goals are met and design parameters achieved.

Classroom/Office

The space classification is predominately assembly and media production, classroom or office type, with laboratory or research type minimized. The project will achieve Gold LEED certification from the U.S. Green Building Council (USGBC). Energy consumption will be at least 30% less than the energy standards cited in ASHRAE 90.1-2007, and water consumption will be at least 30% less than that of a comparable building. The project will utilize the district cooling loop for space cooling needs and look at alternative measures to provide dehumidification with the classifications of classroom and offices and related energy use. All heating and reheating should be hydronic.

EDUCATIONAL PLANT SURVEY

The Educational Plant Survey has not been addressed for this project. As the planning year approaches, this project will be addressed.

STATE UNIVERSITY SYSTEM
CIP-3 SHORT TERM PROJECT EXPLANATION

GEOGRAPHIC LOCATION: University of Central Florida, Orlando
PROJECT DESCRIPTION/TITLE: Band Building

COUNTY: Orange
PROJECT BR No. (if assigned):____

Facility/Space Type	Net Area (NASF)	Net to Gross Conversion	Gross Area (GSF)	Unit Cost (Cost/GSF)*	Construction Cost	Assumed Bid Date	Occupancy Date
Classrooms	2,000	1.5	3,000	195	585,000		
Teaching Labs		1.5	0	215	0		
Research Labs		1.5	0	375	0		
Study		1.4	0	185	0		
Instructional Media		1.5	0	215	0		
Auditorium/Exhibition		1.2	0	275	0		
Gymnasiums	5,555	1.2	6,666	225	1,499,850		
Student Academic Support		1.5	0	185	0		
Offices	2,032	1.5	3,048	190	579,195		
Campus Support Services		1.4	0	180	0		
Totals	9,587		12,714		2,664,045		

*Apply Unit Cost to total GSF based on primary space type

Remodeling/Renovation

Total Construction - New & Rem./Renov. 2,664,045

Space Detail for Remodeling Projects

BEFORE		AFTER	
Space Type	Net Area (NASF)	Space Type	Net Area (NASF)
Total	0	Total	0

SCHEDULE OF PROJECT COMPONENTS — ESTIMATED COSTS

Basic Construction Cost	Funded to Date	2016-17	2017-18	2018-19	2019-20	2020-21	Funded & In CIP
1. a.Construction Cost (from above)						2,664,045	2,664,045
Add'l/Extraordinary Const. Costs							-
b.Environmental Impacts/Mitigation							-
c.Site Preparation							-
d.Landscape/Irrigaiton						111,311	111,311
e.Plaza/Walks							-
f.Roadway Improvements							-
g.Parking ___ spaces							-
h.Telecommunication						15,973	15,973
i.Electrical Service							-
j.Water Distribution							-
k.Sanitary Sewer System							-
l.Chilled Water System							-
m.Storm Water System							-
n.Energy Efficient Equipment							-
Total Construction Costs	0	0	0	0	0	2,791,329	2,791,329
2. Other Project Costs							
a.Land/existing facility acquisition							-
b.Professional Fees					257,138	170,256	427,394
c.Fire Marshall Fees					7,421		7,421
d.Inspection Services					42,187		42,187
e.Insurance Consultant					1,598		1,598
f.Surveys & Tests					45,000		45,000
g.Permit/Impact/Environmental Fees					14,677		14,677
h.Artwork					18,552		18,552
i.Moveable Furnishings & Equipment							-
j.Project Contingency					96,139	8,951	105,090
Total - Other Project Costs	-	-	-	-	482,712	179,207	661,919
ALL COSTS 1+2	0	0	0	0	482,712	2,970,536	3,453,247

Appropriations to Date Source	Fiscal Year	Amount
		0
TOTAL		-

Project Costs Beyond CIP Period Source	Fiscal Year	Amount
PECO	2020-21	482,712
TOTAL		482,712

Total Project In CIP & Beyond
3,453,247
482,712
3,935,959

AGENCY University of Central Florida
BUDGET ENTITY SUS
PROJECT TITLE Arts Complex Phase III

AGENCY PRIORITY 48
DATE BLDG PROGRAM APPROVED

PURPOSE, NEED, SCOPE, RELATIONSHIP OF PROJECT TO AGENCY OBJECTIVES

This project is the last phase of a three (3) phased Center for the Performing Arts in an effort to meet the growing classroom needs of the School of Performing Arts (Music and Theatre units). Arts Complex III will place production units in closer proximity to the performance auditoria, and provide additional instructional and performance spaces.

The effect, if this project is not funded, will be the inability to enhance the performing arts classes and programs at UCF, and the inability to attract cultural events and meet the needs of the Central Florida community. The possibility of leasing additional space is not feasible due to the technical requirements of these spaces.

SUSTAINABILITY AND LEED

The University of Central Florida is committed to sustainability and continued reduction of energy consumption in new construction projects. As energy costs and demands continue to escalate, achieving higher levels of efficiency has become increasingly important to the university's mission. Since 2007, UCF has mandated LEED certification, with most projects achieving Gold. UCF requires specific individual LEED credits that contribute to UCF's core principles including energy efficiency, water conservation, and indoor air quality for all projects. The Department of Utilities & Energy Services provides oversight for all new construction and major renovation projects, and expedites the commissioning process with the latest industry standards to ensure that the university's sustainability goals are met and design parameters achieved.

Classroom/Office

The space classification is predominately classroom or office type, with laboratory or research type minimized. The project will achieve Gold LEED certification from the U.S. Green Building Council (USGBC). Energy consumption will be at least 30% less than the energy standards cited in ASHRAE 90.1-2007, and water consumption will be at least 30% less than that of a comparable building. The project will utilize the district cooling loop for space cooling needs and look at alternative measures to provide dehumidification with the classifications of classroom and offices and related energy use. All heating and reheating will be hydronic.

EDUCATIONAL PLANT SURVEY

The Educational Plant Survey has not been addressed for this project. As the planning year approaches, this project will be addressed.

time, new opportunities for funded research, including collaborations across disciplines, will bring greater national attention to the work done by UCF faculty and students. Increased extramural research expenditures of approximately $2 million per year is anticipated, which will provide additional research opportunities for graduate students. When combined with the widely claimed work CECE faculty have done in the transportation and water resources and quality areas, the increased national and international visibility that UCF will enjoy will result in higher national rankings for the programs in CECE and for the entire CECS.

Florida's current and projected economic growth compound ever-present issues associated with infrastructure and the environment. Any delay of this project limits the ability of UCF CECS faculty educators to apply their knowledge, expertise, and skills for the full benefit of the State of Florida. UCF looks forward to a positive response to this important project.

SUSTAINABILITY AND LEED

The University of Central Florida is committed to sustainability and continued reduction of energy consumption in new construction projects. As energy costs and demands continue to escalate, achieving higher levels of efficiency has become increasingly important to the university's mission. Since 2007, UCF has mandated LEED certification, with most projects achieving Gold. UCF requires specific individual LEED credits that contribute to UCF's core principles including energy efficiency, water conservation, and indoor air quality for all projects. The Department of Utilities & Energy Services provides oversight for all new construction and major renovation projects, and expedites the commissioning process with the latest industry standards to ensure that the university's sustainability goals are met and design parameters achieved.
This building will highlight UCF's commitment to sustainability and energy efficiency and serve as a "living lab" that benefits faculty, students, and UCF's partners.

Classroom/Office

Space classification will be predominately classroom and office types, with some additional space for educational laboratories and research laboratories. The project will achieve Gold LEED certification from the U.S. Green Building Council (USGBC). Energy consumption will be at least 30% less than the energy standards cited in ASHRAE 90.1-2007, and water consumption will be at least 30% less than that of a comparable building. The project will utilize the district cooling loop for space cooling needs and look at alternative measures to provide dehumidification with the classifications of classroom and offices and related energy use. All heating and reheating will be hydronic.

EDUCATIONAL PLANT SURVEY

The Educational Plant Survey has not been addressed for this project. As the planning year approaches, this project will be addressed.

STATE UNIVERSITY SYSTEM
CIP-3 SHORT TERM PROJECT EXPLANATION

GEOGRAPHIC LOCATION: University of Central Florida, Orlando
COUNTY: Orange
PROJECT DESCRIPTION/TITLE: Art Complex III
PROJECT BR No. (if assigned):___

Facility/Space Type	Net Area (NASF)	Net to Gross Conversion	Gross Area (GSF)	Unit Cost (Cost/GSF)*	Construction Cost	Assumed Bid Date	Occupancy Date
Classrooms		1.5	0	274	0		
Teaching Labs	11,870	1.5	17,805	268	4,771,740		
Research Labs		1.5	0	375	0		
Study		1.4	0	286	0		
Instructional Media		1.5	0	213	0		
Auditorium/Exhibition	10,930	1.2	13,116	310	4,065,960		
Gymnasiums		1.2	0	225	0		
Offices	5,000	1.5	7,500	284	2,130,000		
Campus Support Services		1.4	0	276	0		
Totals	27,800		38,421		10,967,700		

*Apply Unit Cost to total GSF based on primary space type

Space Detail for Remodeling Projects

BEFORE		AFTER	
Space Type	Net Area (NASF)	Space Type	Net Area (NASF)

Remodeling/Renovation

Total Construction - New & Rem./Renov.	10,967,700	Total	0	Total	0

SCHEDULE OF PROJECT COMPONENTS — ESTIMATED COSTS

Basic Construction Cost	Funded to Date	2016-17	2017-18	2018-19	2019-20	2020-21	Funded & In CIP
1. a.Construction Cost (from above)						10,967,700	10,967,700
Add'l/Extraordinary Const. Costs							-
b.Environmental Impacts/Mitigation							-
c.Site Preparation						250,000	250,000
d.Landscape/Irrigaiton						200,000	200,000
e.Plaza/Walks							-
f.Roadway Improvements							-
g.Parking ___ spaces							-
h.Telecommunication					81,138	250,000	331,138
i.Electrical Service							-
j.Water Distribution							-
k.Sanitary Sewer System							-
l.Chilled Water System							-
m.Storm Water System							-
n.Energy Efficient Equipment							-
Total Construction Costs	0	0	0	0	81,138	11,667,700	11,748,838
2. Other Project Costs							
a.Land/existing facility acquisition							-
b.Professional Fees					970,106	245,119	1,215,225
c.Fire Marshall Fees					30,902		30,902
d.Inspection Services					252,992		252,992
e.Insurance Consultant					6,579		6,579
f.Surveys & Tests					45,000		45,000
g.Permit/Impact/Environmental Fees					65,689		65,689
h.Artwork						77,256	77,256
i.Moveable Furnishings & Equipment							-
j.Project Contingency					123,609	618,045	741,654
Total - Other Project Costs	-	-	-	-	1,494,877	940,420	2,435,297
ALL COSTS 1+2	0	0	0	0	1,576,015	12,608,120	14,184,135

Appropriations to Date Source	Fiscal Year	Amount
		0
TOTAL		-

Project Costs Beyond CIP Period Source	Fiscal Year	Amount
PECO	2020-21	1,576,015
TOTAL		1,576,015

Total Project In CIP & Beyond
14,184,135
1,576,015
15,760,150

AGENCY University of Central Florida
BUDGET ENTITY SUS
PROJECT TITLE Interdisciplinary Research Building II

AGENCY PRIORITY 49
DATE BLDG PROGRAM

APPROVED

PURPOSE, NEED, SCOPE, RELATIONSHIP OF PROJECT TO AGENCY OBJECTIVES

Technological innovation is the engine that drives the new economy. The ability to develop, transfer, and successfully commercialize new technological discoveries is critical to the economic prosperity of Florida and the nation. Florida enjoys low unemployment, but suffers from an over-dependence on tourism and entertainment, and the low wage jobs associated with those industries. Although the job base has been increasing significantly, the average per capita income has remained below national averages. Florida must build the infrastructure to support and enable a strong technology sector to capture a significant share of the wealth creation made possible by the new economy. Florida lags behind in creating infrastructure that enables and fosters the successful development of homegrown technology-based companies. The National Business Incubator Association reports that 82% of these homegrown companies stay in the region where they were incubated, and realize an average return on investment of 450% to these regions in the form of an increased tax base alone. Florida continues to build an outstanding university system that produces relevant, exploitable technologies in key areas. Too many of these technologies are commercialized elsewhere or simply sit on the shelf.

It is the intent of this program to build a center of excellence in technology entrepreneurship and incubation that will significantly impact economic development and technology exploitation in the region, and in Florida as a whole. The goal is to develop and integrate strong education, incubation, and technology transfer, and commercialization programs that will catalyze significant growth in the technology sector. This is the second of three Interdisciplinary Research Buildings envisioned to meet the growing high-tech demands of Central Florida industry.

As a metropolitan university, serving the needs of Central Florida, the addition of this building and its associated research activities will advance the university's goals of:

Offering the best undergraduate education available in Florida;
Achieving international prominence in key programs of graduate study and research;
Providing international focus to our curricula and research programs;
Becoming more inclusive and diverse; and
Being America's leading partnership university.

The building will provide researchers with laboratory space conducive to interaction, collaboration and professional development.

The possibility of leasing additional space is not feasible since it is not available within walking distance of the main campus, and spaces to support this type of research are not generally available.

The delay of this project will inhibit the necessary growth of new interdisciplinary research efforts at the university to meet a growing demand of high-tech industry in Central Florida. Key business and industry leaders have cited UCF as a key reason for their business location in Central Florida. The laboratory space, teaching labs, and associated faculty office space are vitally needed to meet the new research demands.

SUSTAINABILITY AND LEED

The University of Central Florida is committed to sustainability and continued reduction of energy consumption in new construction projects. As energy costs and demands continue to escalate, achieving higher levels of efficiency has become increasingly important to the university's mission. Since 2007, UCF has mandated LEED certification, with most projects achieving Gold. UCF requires specific individual LEED credits that contribute to UCF's core principles including energy efficiency, water conservation, and indoor air quality for all projects. The Department of Utilities & Energy Services provides oversight for all new construction and major renovation projects, and expedites the commissioning process with the latest industry standards to ensure that the university's sustainability goals are met and design parameters achieved.

Research/Laboratory

The space classification is predominately laboratory type, with office type minimized. The project will achieve LEED Gold certification with the U.S. Green Building Council (USGBC). Energy consumption will be at least 30% less than the energy standards cited in ASHRAE 90.1-2007, and water consumption will be at least 30% less than that of a comparable building. Laboratories will have continuous variable air flow valves with air flow reset capabilities. Domestic and laboratory hot water needs will be provided primarily by solar thermal energy. The project will utilize the district cooling loop for space cooling needs and look at alternative measures to provide dehumidification with the classifications of lab spaces and related energy use. All heating and reheating will be hydronic.

EDUCATIONAL PLANT SURVEY

The Educational Plant Survey has not been addressed for this project. As the planning year approaches, this project will be addressed.

STATE UNIVERSITY SYSTEM
CIP-3 SHORT TERM PROJECT EXPLANATION

GEOGRAPHIC LOCATION: University of Central Florida, Orlando
COUNTY: Orange
PROJECT DESCRIPTION/TITLE: Interdisciplinary Research Building II
PROJECT BR No. (if assigned):___

Facility/Space Type	Net Area (NASF)	Net to Gross Conversion	Gross Area (GSF)	Unit Cost (Cost/GSF)*	Construction Cost	Assumed Bid Date	Occupancy Date
Classrooms	10,600	1.5	15,900	274	4,356,600		
Teaching Labs		1.5	0	268	0		
Research Labs	17,950	1.5	26,925	375	10,096,875		
Study		1.4	0	286	0		
Instructional Media		1.5	0	213	0		
Auditorium/Exhibition		1.2	0	310	0		
Gymnasiums		1.2	0	225	0		
Offices	10,000	1.5	15,000	284	4,260,000		
Campus Support Services		1.4	0	276	0		
Totals	38,550		57,825		18,713,475		

*Apply Unit Cost to total GSF based on primary space type

Remodeling/Renovation

Total Construction - New & Rem./Renov. 18,713,475

Space Detail for Remodeling Projects

BEFORE		AFTER	
Space Type	Net Area (NASF)	Space Type	Net Area (NASF)
Total	0	Total	0

SCHEDULE OF PROJECT COMPONENTS — ESTIMATED COSTS

Basic Construction Cost	Funded to Date	2016-17	2017-18	2018-19	2019-20	2020-21	Funded & In CIP
1. a.Construction Cost (from above)						18,713,475	18,713,475
Add'l/Extraordinary Const. Costs							-
b.Environmental Impacts/Mitigation							-
c.Site Preparation						250,000	250,000
d.Landscape/Irrigaiton						300,000	300,000
e.Plaza/Walks							-
f.Roadway Improvements							-
g.Parking ___ spaces							-
h.Telecommunication						285,655	285,655
i.Electrical Service							-
j.Water Distribution							-
k.Sanitary Sewer System							-
l.Chilled Water System							-
m.Storm Water System							-
n.Energy Efficient Equipment							-
Total Construction Costs	0	0	0	0	0	19,549,130	**19,549,130**
2. Other Project Costs							
a.Land/existing facility acquisition							-
b.Professional Fees					1,819,660	413,666	2,233,326
c.Fire Marshall Fees					51,708		51,708
d.Inspection Services					414,824		414,824
e.Insurance Consultant					11,309		11,309
f.Surveys & Tests					45,000		45,000
g.Permit/Impact/Environmental Fees					87,786		87,786
h.Artwork						100,000	100,000
i.Moveable Furnishings & Equipment							-
j.Project Contingency					206,833	1,034,165	1,240,998
Total - Other Project Costs	-	-	-	-	2,637,120	1,547,831	**4,184,951**
ALL COSTS 1+2	0	0	0	0	2,637,120	21,096,961	**23,734,081**

Appropriations to Date Source	Fiscal Year	Amount
		0
TOTAL		-

Project Costs Beyond CIP Period Source	Fiscal Year	Amount	Total Project In CIP & Beyond
PECO	2020-2021	2,637,120	23,734,081
			2,637,120
TOTAL		2,637,120	26,371,201

AGENCY University of Central Florida
BUDGET ENTITY SUS
PROJECT TITLE Theatre Building Renovation

AGENCY PRIORITY 50
DATE BLDG PROGRAM APPROVED

PURPOSE, NEED, SCOPE, RELATIONSHIP OF PROJECT TO AGENCY OBJECTIVES

The existing Theatre Building was constructed in 1968and there is considerable capital renewal needed for health/safety issues as well as renovations for more appropriate user needs. In addition, the older performance space (auditorium) will need to be remodeled to accommodate teaching space. This facility is in fair condition.

Once Theatre occupies the new performance space in the proposed Arts Complex Phase II, the performance space in the existing Theatre Building will be unusable without renovation.

The university contracted with the ISES Corporation to conduct a Facilities Condition Assessment (FCA) to benchmark the condition of its E&G facilities. The Theatre renovation will address both critical and non-critical issues identified in the FCA. These issues encompass deficiencies such as indoor air quality, fire alarm modernization, potable water and plumbing distribution systems, electrical service, asbestos, HVAC modernization, lighting upgrades, building automation, ADA compliance, building envelope repairs, interior finishes, flooring, egress, exterior lighting, and utility service entrance upgrades. Information technology upgrades are also required in order to meet current and future requirements.

SUSTAINABILITY AND LEED

The University of Central Florida is committed to sustainability and continued reduction of energy consumption in new construction projects. As energy costs and demands continue to escalate, achieving higher levels of efficiency has become increasingly important to the university's mission. Since 2007, UCF has mandated LEED certification, with most projects achieving Gold. UCF requires specific individual LEED credits that contribute to UCF's core principles including energy efficiency, water conservation, and indoor air quality for all projects. The Department of Utilities & Energy Services provides oversight for all new construction and major renovation projects, and expedites the commissioning process with the latest industry standards to ensure that the university's sustainability goals are met and design parameters achieved.

Classroom/Office

The space classification is predominately assembly, classroom or office type, with laboratory or research type minimized. The project will achieve Gold LEED certification from the U.S. Green Building Council (USGBC). Energy consumption will be at least 30% less than the energy standards cited in ASHRAE 90.1-2007, and water consumption will be at least 30% less than that of a comparable building. The project will utilize the district cooling loop for space cooling needs and look at alternative measures to provide dehumidification with the classifications of classroom and offices and related energy use. All heating and reheating will be hydronic.

EDUCATIONAL PLANT SURVEY

The Educational Plant Survey has not been addressed for this project. As the planning year approaches, this project will be addressed.

STATE UNIVERSITY SYSTEM
CIP-3 SHORT TERM PROJECT EXPLANATION

GEOGRAPHIC LOCATION: University of Central Florida, Orlando
COUNTY: Orange
PROJECT DESCRIPTION/TITLE: Theater Building Renovation
PROJECT BR No. (if assigned):____

Facility/Space Type	Net Area (NASF)	Net to Gross Conversion	Gross Area (GSF)	Unit Cost (Cost/GSF)*	Construction Cost	Assumed Bid Date	Occupancy Date
Classrooms		1.5	0	274	0		
Teaching Labs		1.5	0	268	0		
Research Labs		1.5	0	375	0		
Study		1.4	0	286	0		
Instructional Media		1.5	0	215	0		
Auditorium/Exhibition		1.2	0	310	0		
Gymnasiums		1.2	0	225	0		
Offices		1.5	0	284	0		
Campus Support Services		1.4	0	276	0		
Totals	0		0		0		
*Apply Unit Cost to total GSF based on primary space type							
Remodeling/Renovation	22,064		29,469		2,578,465		
Total Construction - New & Rem./Renov.					2,578,465		

Space Detail for Remodeling Projects

BEFORE		AFTER	
Space Type	Net Area (NASF)	Space Type	Net Area (NASF)
Offices	6,045	Offices	6,045
Total	6,045	Total	6,045

SCHEDULE OF PROJECT COMPONENTS — ESTIMATED COSTS

Basic Construction Cost	Funded to Date	2016-17	2017-18	2018-19	2019-20	2020-21	Funded & In CIP
1. a.Construction Cost (from above)						2,578,465	2,578,465
Add'l/Extraordinary Const. Costs							-
b.Environmental Impacts/Mitigation							-
c.Site Preparation							-
d.Landscape/Irrigaiton							-
e.Plaza/Walks							-
f.Roadway Improvements							-
g.Parking ___ spaces							-
h.Telecommunication							-
i.Electrical Service							-
j.Water Distribution							-
k.Sanitary Sewer System							-
l.Chilled Water System							-
m.Storm Water System							-
n.Energy Efficient Equipment							-
Total Construction Costs	0	0	0	0	0	2,578,465	2,578,465
2. Other Project Costs							
a.Land/existing facility acquisition							-
b.Professional Fees						305,437	305,437
c.Fire Marshall Fees						7,584	7,584
d.Inspection Services						11,772	11,772
e.Insurance Consultant						1,547	1,547
f.Surveys & Tests							-
g.Permit/Impact/Environmental Fees						31,115	31,115
h.Artwork							-
i.Moveable Furnishings & Equipment						212,876	212,876
j.Project Contingency						470,102	470,102
Total - Other Project Costs	-	-	-	-	-	1,040,433	1,040,433
ALL COSTS 1+2	0	0	0	0	0	3,618,898	3,618,898

Appropriations to Date Source	Fiscal Year	Amount	Project Costs Beyond CIP Period Source	Fiscal Year	Amount	Total Project In CIP & Beyond
		0				3,618,898
TOTAL		-	TOTAL		0	3,618,898

AGENCY University of Central Florida
BUDGET ENTITY SUS
PROJECT TITLE Sustainability Center

AGENCY PRIORITY 51
DATE BLDG PROGRAM APPROVED

PURPOSE, NEED, SCOPE, RELATIONSHIP OF PROJECT TO AGENCY OBJECTIVES

The Sustainability Center will provide a collaborative environment where academic, research, and operational departments will partner to accelerate scientific discovery in sustainability and energy. The center will provide the offices and conference space needed to promote the university's continued sustainable efforts, while forging strong connections with research and academics units. This facility will promote faculty, staff, and student interaction with industry partners, and provide students with a home for continued learning about this emerging field. Designed and constructed with sustainability and energy in mind, the Center will also provide research space for building and construction industry demonstrations.

SUSTAINABILITY AND LEED

The University of Central Florida is committed to sustainability and continued reduction of energy consumption in new construction projects. As energy costs and demands continue to escalate, achieving higher levels of efficiency has become increasingly important to the university's mission. Since 2007, UCF has mandated LEED certification, with most projects achieving Gold. UCF requires specific individual LEED credits that contribute to UCF's core principles including energy efficiency, water conservation, and indoor air quality for all projects. The Department of Utilities & Energy Services provides oversight for all new construction and major renovation projects, and expedites the commissioning process with the latest industry standards to ensure that the university's sustainability goals are met and design parameters achieved.

Classroom/Office

The space classification is predominately classroom or office type, with laboratory or research type minimized. The project will achieve Gold LEED certification from the U.S. Green Building Council (USGBC). Energy consumption will be at least 30% less than the energy standards cited in ASHRAE 90.1-2007, and water consumption will be at least 30% less than that of a comparable building. The project will utilize the district cooling loop for space cooling needs and look at alternative measures to provide dehumidification with the classifications of classroom and offices and related energy use. All heating and reheating will be hydronic.

EDUCATIONAL PLANT SURVEY

The Educational Plant Survey has not been addressed for this project. As the planning year approaches, this project will be addressed.

STATE UNIVERSITY SYSTEM
CIP-3 SHORT TERM PROJECT EXPLANATION

GEOGRAPHIC LOCATION: University of Central Florida, Orlando
COUNTY: Orange
PROJECT DESCRIPTION/TITLE: Sustainability Center
PROJECT BR No. (if assigned):____

Facility/Space Type	Net Area (NASF)	Net to Gross Conversion	Gross Area (GSF)	Unit Cost (Cost/GSF)*	Construction Cost	Assumed Bid Date	Occupancy Date
Classrooms		1.5	0	274	0		
Teaching Labs		1.5	0	268	0		
Research Labs		1.5	0	375	0		
Study		1.4	0	286	0		
Instructional Media		1.5	0	213	0		
Auditorium/Exhibition		1.2	0	310	0		
Gymnasiums		1.2	0	225	0		
Offices	8,400	1.5	12,600	284	3,578,400		
Campus Support Services		1.4	0	276	0		
Totals	8,400		12,600		3,578,400		

*Apply Unit Cost to total GSF based on primary space type

Space Detail for Remodeling Projects

BEFORE		AFTER	
Space Type	Net Area (NASF)	Space Type	Net Area (NASF)
Total	0	Total	0

Remodeling/Renovation

Total Construction - New & Rem./Renov. 3,578,400

SCHEDULE OF PROJECT COMPONENTS — ESTIMATED COSTS

Basic Construction Cost	Funded to Date	2016-17	2017-18	2018-19	2020-21	2019-2021	Funded & In CIP
1. a.Construction Cost (from above)						3,578,400	3,578,400
Add'l/Extraordinary Const. Costs							-
b.Environmental Impacts/Mitigation							-
c.Site Preparation						150,000	150,000
d.Landscape/Irrigaiton						100,000	100,000
e.Plaza/Walks							-
f.Roadway Improvements							-
g.Parking ___ spaces							-
h.Telecommunication						125,000	125,000
i.Electrical Service							-
j.Water Distribution							-
k.Sanitary Sewer System							-
l.Chilled Water System							-
m.Storm Water System							-
n.Energy Efficient Equipment							-
Total Construction Costs	0	0	0	0	0	3,953,400	**3,953,400**
2. Other Project Costs							
a.Land/existing facility acquisition							-
b.Professional Fees						399,612	399,612
c.Fire Marshall Fees						10,400	10,400
d.Inspection Services						74,600	74,600
e.Insurance Consultant						1,136	1,136
f.Surveys & Tests						25,000	25,000
g.Permit/Impact/Environmental Fees						42,955	42,955
h.Artwork						26,000	26,000
i.Moveable Furnishings & Equipment						520,000	520,000
j.Project Contingency						250,897	250,897
Total - Other Project Costs	-	-	-	-		1,350,600	**1,350,600**
ALL COSTS 1+2	0	0	0	0	0	0	5,304,000

Appropriations to Date Source	Fiscal Year	Amount
		0
TOTAL		-

Project Costs Beyond CIP Period Source	Fiscal Year	Amount
TOTAL		0

Total Project In CIP & Beyond: 5,304,000

4

Projects Requiring Legislative Approval

Attachment B

STATE UNIVERSITY SYSTEM
Fixed Capital Outlay Projects Requiring Board of Governors Approval
to be Constructed, Acquired, and Financed by a University or
a University Direct Support Organization with Approved Debt
BOB-1

Univ.	Project Title	GSF	Brief Description of Project	Project Location	Project Amount	Funding Source	Estimated Month Of Board Approval Request	Estimated Annual Amount For Operational and Maintenance Costs Amount	Source
UCF	Special Purpose Housing and Parking Garage	160,000	425 beds and 500 parking spaces	UCF, Orlando	$ 25,500,000	Rental income	July	$2,400,000	Auxiliary
UCF	Special Purpose Housing II	32,000	Fraternity, sorority, and organization housing	UCF, Orlando	$ 8,160,000	Rental income	July	$480,000	Auxiliary
UCF	Parking Garage VII	447,000	1,600 spaces	UCF, Orlando	$ 21,216,000	Decal fees, traffic fines, and Transportation Access Fee	July	$6,705,000	Auxiliary
UCF	Parking Decks	168,000	1,800 spaces	UCF, Orlando	$ 17,340,000	Decal fees, traffic fines, and Transportation Access Fee	July	$2,520,000	Auxiliary
UCF	Graduate Housing	150,000	Land and 600 beds	UCF, Orlando	$ 51,000,000	Rental and retail income	July	$2,250,000	Auxiliary
UCF	Refinance UCF Foundation properties	432,250	Consolidation and refinancing of existing UCF Foundation properties	UCF, Orlando	$ 37,410,000	Rental and retail income	July	$0	N/A
UCF	Student Housing	224,000	800 beds	UCF, Orlando	$ 51,000,000	Rental income	July	$3,360,000	Auxiliary
UCF	Garage Expansion	50,837	400 additional spaces	UCF, Orlando	$ 11,000,000	Decal fees, traffic fines, and Transportation Access Fee	July	$762,555	Auxiliary
UCF	Classroom and Lab Building, Lake Nona	91,464	Classrooms, labs, and offices	UCF, Orlando	$ 24,902,916	Donations and partnerships	July	$1,371,960	General Revenue
UCF	Facilities Building, Lake Nona	20,799	Offices, storage, and support space	UCF, Orlando	$ 6,130,000	Donations and partnerships	July	$311,985	General Revenue
UCF	Regional Campuses Multi-Purpose Buildings	60,000	Classrooms, labs, and offices	UCF, Orlando	$ 28,560,000	Donations and partnerships	July	$900,000	General Revenue
UCF	Partnership Garage	60,000	600 spaces	UCF, Orlando	$ 7,140,000	Decal fees and revenue income	July	$0	Auxiliary
UCF	Parking Deck (Athletic Complex)	168,000	600 parking spaces	UCF, Orlando	$ 5,100,000	Decal fees, traffic fines, and Transportation Access Fee	July	$2,520,000	Auxiliary
UCF	UCF Downtown Campus Garage I	200,000	600 spaces	UCF, Orlando	$ 15,300,000	Decal fees, traffic fines, and Transportation Access Fee	July	$3,000,000	Auxiliary
UCF	UCF Downtown Campus Garage II	200,000	600 spaces	UCF, Orlando	$ 15,300,000	Decal fees, traffic fines, and Transportation Access Fee	July	$3,000,000	Auxiliary
UCF	UCF Downtown Campus Housing I	165,000	300 beds	UCF, Orlando	$ 21,887,415	Rental income	July	$2,475,000	Auxiliary
UCF	UCF Downtown Campus Housing II	165,000	300 beds	UCF, Orlando	$ 21,887,415	Rental income	July	$2,475,000	Auxiliary
UCF	Baseball Stadium Expansion and Renovation	5,700	200 seats, new press box	UCF, Orlando	$ 2,550,000	Donations	July	$85,500	DSO
UCF	Baseball Clubhouse Expansion and Renovation		New playing field, chair backs, audio and lighting upgrade	UCF, Orlando	$ 1,020,000	Donations	July	$0	DSO
UCF	Bright House Networks Stadium Expansion and Improvements Phase I	21,337	Additional club seating, suites, and operational booths	UCF, Orlando	$ 11,220,000	Donations	July	$320,055	DSO
UCF	Tennis Center	7,470	Championship-caliber outdoor courts and 864 grandstand seats	UCF, Orlando	$ 1,530,000	Donations	July	$112,050	DSO
UCF	Multi-Purpose Medical Research and Incubator Facility	200,000	Classrooms, labs, and offices	UCF, Orlando	$ 115,121,201	Donations and partnerships	July	$3,000,000	General Revenue
UCF	Health Sciences Campus Parking Garage	402,000	1,300 spaces	UCF, Orlando	$ 15,300,000	Decal fees and traffic fines	July	$6,030,000	Auxiliary
UCF	Bio-Medical Annex Renovation and Expansion	32,000	Classrooms, labs, and offices	UCF, Orlando	$ 13,056,000	Donations and partnerships	July	$480,000	General Revenue
UCF	Outpatient Center	119,750	Health care facilities, offices, 38 beds	UCF, Orlando	$ 76,500,000	Donations and partnerships	July	$1,796,250	General Revenue
UCF	Dental School	166,750	Classrooms, labs, auditorium, health care facilities, offices	UCF, Orlando	$ 73,000,000	Donations and partnerships	July	$2,501,250	Revenue
UCF	Utility Infrastructure and Site Work, Lake Nona Clinical Facilities		3,080 Spaces	UCF, Orlando	$ 10,608,000	Income and energy savings	July		General Revenue
UCF	UCF Health Expansion	20,000	Labs, offices	UCF, Orlando	$ 10,608,000	Donations and partnerships	July	$300,000	General Revenue

Attachment C

STATE UNIVERSITY SYSTEM
Fixed Capital Outlay Projects That May Require Legislative Authorization
and General Revenue Funds to Operate and Maintain
BOB-2

Univ.	Project Title	GSF	Brief Description of Project	Project Location	Project Amount	Funding Source	Estimated Annual Amount For Operational and Maintenance Costs Amount	Source
UCF	Downtown Campus Building I	165,000	Offices	UCF - Orlando	$57,750,000	PECO	$2,475,000	General Revenue
UCF	Downtown Campus Building II	222,000	Offices, Classrooms, Teaching Labs	UCF - Orlando	$77,717,325	PECO	$3,330,000	General Revenue
UCF	Institute for Hospitality in Healthcare at Lake Nona	36,000	Offices, Classrooms, Teaching Labs	UCF - Orlando	$15,000,000	Grant, Private	$540,000	General Revenue
UCF	District Energy IV Plant	13,000	Offices	UCF - Orlando	$13,000,000	Auxilary	$195,000	General Revenue
UCF	Creative School	8,351	Classrooms, Offices	UCF - Orlando	$5,000,000	CITF	$125,265	General Revenue
UCF	Library Expansion Phase I	12,609	Automatic Retrieval Center	UCF-Orlando	$21,366,592	CITF	$189,135	General Revenue
UCF	CREOL	2,756	Research Labs	UCF-Orlando	$1,406,000	E&G	$41,340	General Revenue
UCF	Center for Public Safety - Hazardous Materials Bldg.	1,400	Research Lab, Offices	UCF-Orlando	$9,084,000	PECO	$21,000	General Revenue
UCF	Arts Complex II Performance	2,728	Teaching Lab, Offices	UCF-Orlando	$964,411	PECO	$40,920	General Revenue