

Weight on Cost Per SCH And Appropriation Formula

Overview

- Public Service and Research Spreading
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- Appropriation Formula
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2006-07 SUS Expenditure Analysis

PGM=EAFC206-V01

STATE UNIVERSITY SYSTEM
2006-07 EXPENDITURE ANALYSIS

BUDGET ENTITY: EDUCATIONAL & GENERAL
UNIVERSITY: UNIVERSITY OF FLORIDA
DIS CODE: 01 AGRICULTURE/AG OPS/RLTD SCI

COSTS PER CREDIT HOUR
REPORT IV
* BY DISCIPLINE *

(A)	(B) FUNDABLE STU CRED HR	(C) DIRECT EXPENDITURE	(D) INDIRECT EXPENDITURE	(E) TOTAL FULL EXPENDITURE	(C/B) DIRECT EXPEND. PER STU CRED HR	(D/B) INDIRECT EXPEND. PER STU CRED HR	(E/B) TOTAL EXPEND. PER STU CRED HR
					\$	\$	\$
INSTRUCTION							

COST ACTIVITIES							
LOWER	13,011	636,985	770,675	1,407,660	48.96	59.23	108.19
UPPER	30,011	5,869,271	4,932,838	10,802,109	195.57	164.37	359.94
GRAD I	5,879	2,924,219	1,266,550	4,190,769	497.40	215.44	712.84
GRAD II	5,014	3,214,856	1,312,839	4,527,695	641.18	261.83	903.01
GRAD III	0	0	0	0	0.00	0.00	0.00
CLINICAL	0	0	0	0	0.00	0.00	0.00
SUB TOTAL INST.	53,915	12,645,331	8,282,902	20,928,233	234.54	153.63	388.17
ACAD ADVISING	0	0	0	0	0.00	0.00	0.00
ACAD ADMINISTRATION	0	0	0	0	0.00	0.00	0.00
PUBLIC SERVICE	0	6,115	1,639	7,754	0.00	0.00	0.00
RESEARCH	0	2,673,418	2,110,975	4,784,393	0.00	0.00	0.00
TOTAL DIS	53,915	15,324,864	10,395,516	25,720,380	284.24	192.81	477.05

Public Service and Research Spreading - UF, CIP 01-AG

Level	Fundable SCH	Direct Expenditure	Percentage on All Levels	Percentage on Grad I and Grad II	Public Service Spreading	Research Spreading	Direct Expenditure with Public Service and Research
Lower	13,011	\$636,985	5%		\$308		\$637,293
Upper	30,011	\$5,869,271	46%		\$2,838		\$5,872,109
Grad I	5,879	\$2,924,219	23%	48%	\$1,414	\$1,273,426	\$4,199,059
Grad II	5,014	\$3,214,856	25%	52%	\$1,555	\$1,399,992	\$4,616,402
Sub Total		\$12,645,331					
Public Service		\$6,115					
Research		\$2,673,418					
Grand Total		\$15,324,864	100%	100.00%	\$6,115	\$2,679,533	\$15,324,864

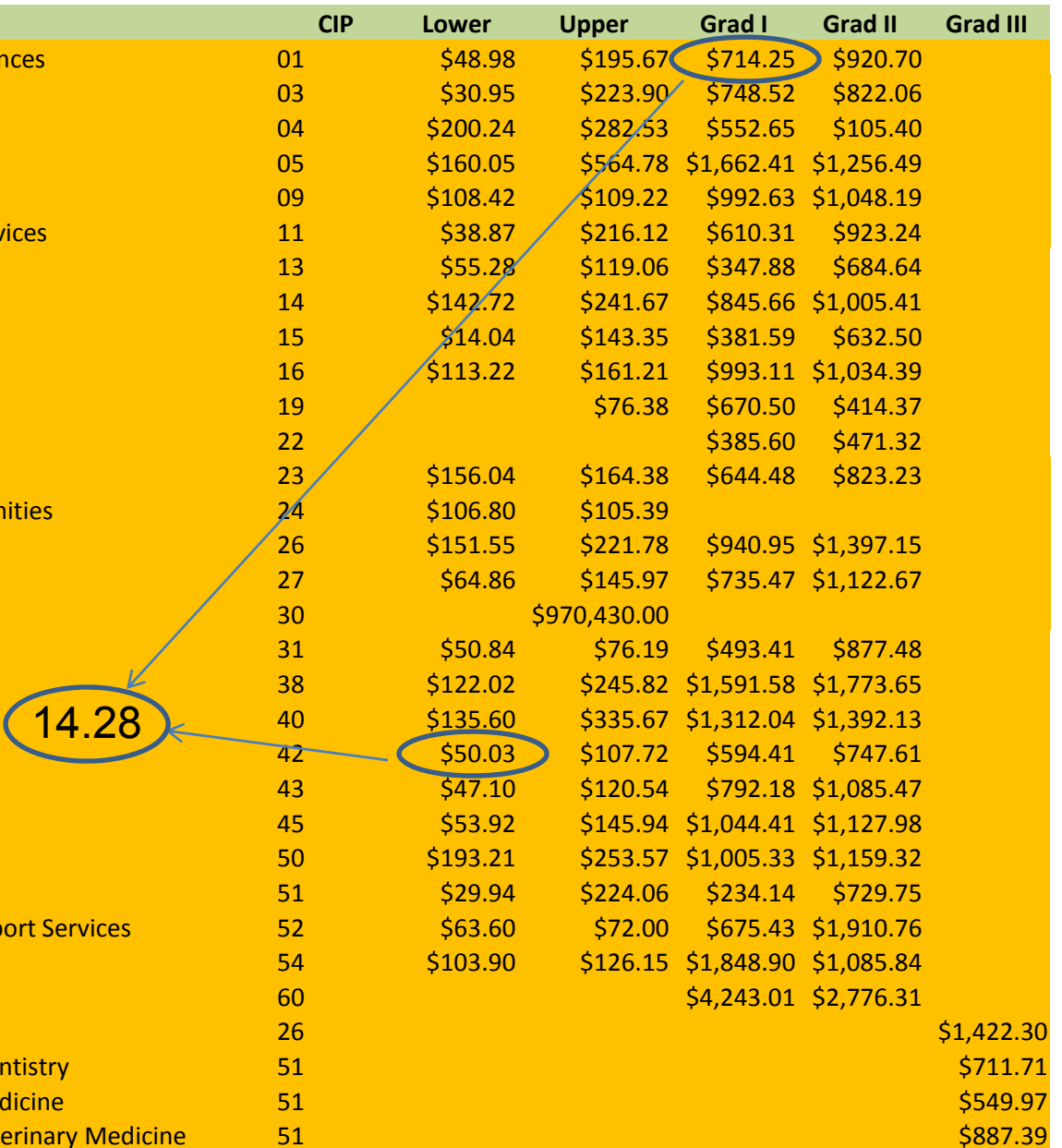
Cost Per SCH Calculation - UF, CIP 01-AG

Level	Fundable SCH	Direct Expenditure	Percentage on All Levels	Percentage on Grad I and Grad II	Public Service Spreading	Research Spreading	Direct Expenditure with Public Service and Research	Cost Per SCH
Lower	13,011	\$636,985	5%		\$308		\$637,293	\$48.98
Upper	30,011	\$5,869,271	46%		\$2,838		\$5,872,109	\$195.67
Grad I	5,879	\$2,924,219	23%	48%	\$1,414	\$1,273,426	\$4,199,059	\$714.25
Grad II	5,014	\$3,214,856	25%	52%	\$1,555	\$1,399,992	\$4,616,402	\$920.70
Sub Total		\$12,645,331						
Public Service	0	\$6,115						
Research	0	\$2,673,418						
Grand Total		\$15,324,864	100%	100.00%	\$6,115	\$2,679,533	\$15,324,864	

Cost Per SCH - UF

CIP Name	CIP	Lower	Upper	Grad I	Grad II	Grad III
Agriculture, Agriculture Operations, and Related Sciences	01	\$48.98	\$195.67	\$714.25	\$920.70	
Natural Resources and Conservation	03	\$30.95	\$223.90	\$748.52	\$822.06	
Architecture and Related Services	04	\$200.24	\$282.53	\$552.65	\$105.40	
Area, Ethnic, Cultural, and Gender Studies	05	\$160.05	\$564.78	\$1,662.41	\$1,256.49	
Communication, Journalism, and Related Programs	09	\$108.42	\$109.22	\$992.63	\$1,048.19	
Computer and Information Sciences and Support Services	11	\$38.87	\$216.12	\$610.31	\$923.24	
Education	13	\$55.28	\$119.06	\$347.88	\$684.64	
Engineering	14	\$142.72	\$241.67	\$845.66	\$1,005.41	
Engineering Technologies/Technicians	15	\$14.04	\$143.35	\$381.59	\$632.50	
Foreign languages, literatures, and Linguistics	16	\$113.22	\$161.21	\$993.11	\$1,034.39	
Family and Consumer Sciences/Human Sciences	19		\$76.38	\$670.50	\$414.37	
Legal Professions and Studies	22			\$385.60	\$471.32	
English Language and Literature/Letters	23	\$156.04	\$164.38	\$644.48	\$823.23	
Liberal Arts and Sciences, General Studies and Humanities	24	\$106.80	\$105.39			
Biological and Biomedical Sciences	26	\$151.55	\$221.78	\$940.95	\$1,397.15	
Mathematics and Statistics	27	\$64.86	\$145.97	\$735.47	\$1,122.67	
Multi/Interdisciplinary Studies	30		\$970,430.00			
Parks, Recreation, Leisure, and Fitness Studies	31	\$50.84	\$76.19	\$493.41	\$877.48	
Philosophy and Religious Studies	38	\$122.02	\$245.82	\$1,591.58	\$1,773.65	
Physical Sciences	40	\$135.60	\$335.67	\$1,312.04	\$1,392.13	
Psychology	42	\$50.03	\$107.72	\$594.41	\$747.61	
Security and Protective Services	43	\$47.10	\$120.54	\$792.18	\$1,085.47	
Social Sciences	45	\$53.92	\$145.94	\$1,044.41	\$1,127.98	
Visual and Performing Arts	50	\$193.21	\$253.57	\$1,005.33	\$1,159.32	
Health Professions and Related Clinical Sciences	51	\$29.94	\$224.06	\$234.14	\$729.75	
Business, Management, Marketing, and Related Support Services	52	\$63.60	\$72.00	\$675.43	\$1,910.76	
History (new)	54	\$103.90	\$126.15	\$1,848.90	\$1,085.84	
Residency Programs	60			\$4,243.01	\$2,776.31	
Biological and Biomedical Sciences - Medicine	26					\$1,422.30
Health Professions and Related Clinical Sciences - Dentistry	51					\$711.71
Health Professions and Related Clinical Sciences - Medicine	51					\$549.97
Health Professions and Related Clinical Sciences - Veterinary Medicine	51					\$887.39

14.28



Weight on Cost Per SCH by CIP - UF

CIP Name	CIP	Lower	Upper	Grad I	Grad II	Grad III
Agriculture, Agriculture Operations, and Related Sciences	01	0.98	3.91	14.28	18.40	
Natural Resources and Conservation	03	0.62	4.48	14.96	16.43	
Architecture and Related Services	04	4.00	5.65	11.05	2.11	
Area, Ethnic, Cultural, and Gender Studies	05	3.20	11.29	33.23	25.11	
Communication, Journalism, and Related Programs	09	2.17	2.18	19.84	20.95	
Computer and Information Sciences and Support Services	11	0.78	4.32	12.20	18.45	
Education	13	1.10	2.38	6.95	13.68	
Engineering	14	2.85	4.83	16.90	20.10	
Engineering Technologies/Technicians	15	0.28	2.87	7.63	12.64	
Foreign languages, literatures, and Linguistics	16	2.26	3.22	19.85	20.67	
Family and Consumer Sciences/Human Sciences	19		1.53	13.40	8.28	
Legal Professions and Studies	22			7.71	9.42	
English Language and Literature/Letters	23	3.12	3.29	12.88	16.45	
Liberal Arts and Sciences, General Studies and Humanities	24	2.13	2.11			
Biological and Biomedical Sciences	26	3.03	4.43	18.81	27.93	
Mathematics and Statistics	27	1.30	2.92	14.70	22.44	
Multi/Interdisciplinary Studies	30		19396.30			
Parks, Recreation, Leisure, and Fitness Studies	31	1.02	1.52	9.86	17.54	
Philosophy and Religious Studies	38	2.44	4.91	31.81	35.45	
Physical Sciences	40	2.71	6.71	26.22	27.82	
Psychology	42	1.00	2.15	11.88	14.94	
Security and Protective Services	43	0.94	2.41	15.83	21.70	
Social Sciences	45	1.08	2.92	20.88	22.55	
Visual and Performing Arts	50	3.86	5.07	20.09	23.17	
Health Professions and Related Clinical Sciences	51	0.60	4.48	4.68	14.59	
Business, Management, Marketing, and Related Support Services	52	1.27	1.44	13.50	38.19	
History (new)	54	2.08	2.52	36.95	21.70	
Residency Programs	60			84.81	55.49	
Biological and Biomedical Sciences - Medicine	26					28.43
Health Professions and Related Clinical Sciences - Dentistry	51					14.23
Health Professions and Related Clinical Sciences - Medicine	51					10.99
Health Professions and Related Clinical Sciences - Veterinary Medicine	51					17.74

Weight Rollup To College – SCH File

College	College Code	Department	Department	CIP	Level	Fundable SCH
AGRICULTURAL AND LIFE SCIENCES	60	ACADEMIC PROGRAMS	Dean For Academic Programs	01	1 Lower	180
	60	ACADEMIC PROGRAMS	Dean For Academic Programs	01	2 Upper	817
	60	ACADEMIC PROGRAMS	Dean For Academic Programs	01	3 Grad1	125
	60	ACADEMIC PROGRAMS	Dean For Academic Programs	01	4 Grad2	161
	60	AGRICULTURAL & BIOLOGICAL ENG	Agricul / Biological Eng	14	1 Lower	174
	60	AGRICULTURAL & BIOLOGICAL ENG	Agricul / Biological Eng	14	2 Upper	3,159
	60	AGRICULTURAL & BIOLOGICAL ENG	Agricul / Biological Eng	14	3 Grad1	689
	60	AGRICULTURAL & BIOLOGICAL ENG	Agricul / Biological Eng	14	4 Grad2	686
	60	AGRICULTURAL EDUC & COMMUN	Ag Ed And Communication	13	2 Upper	5,140
	60	AGRICULTURAL EDUC & COMMUN	Ag Ed And Communication	13	3 Grad1	564
	60	AGRICULTURAL EDUC & COMMUN	Ag Ed And Communication	13	4 Grad2	298
	60	AGRONOMY	Agronomy	01	1 Lower	423
	60	AGRONOMY	Agronomy	01	2 Upper	2,112
	60	AGRONOMY	Agronomy	01	3 Grad1	407
	60	AGRONOMY	Agronomy	01	4 Grad2	477
	60	ANIMAL SCIENCES	Animal Sciences	01	1 Lower	164
	60	ANIMAL SCIENCES	Animal Sciences	01	2 Upper	5,115
	60	ANIMAL SCIENCES	Animal Sciences	01	3 Grad1	590
	60	ANIMAL SCIENCES	Animal Sciences	01	4 Grad2	591
	60	ENTOMOLOGY & NEMATOLOGY	Entomology And Nematology	26	1 Lower	3,105
	60	ENTOMOLOGY & NEMATOLOGY	Entomology And Nematology	26	2 Upper	2,103
	60	ENTOMOLOGY & NEMATOLOGY	Entomology And Nematology	26	3 Grad1	875
	60	ENTOMOLOGY & NEMATOLOGY	Entomology And Nematology	26	4 Grad2	1,586
	60	FAMILY, YOUTH, & COMMUNITY SCI	Fam Youth / Comm Sci	19	2 Upper	8,099
	60	FAMILY, YOUTH, & COMMUNITY SCI	Fam Youth / Comm Sci	19	3 Grad1	485
	60	FAMILY, YOUTH, & COMMUNITY SCI	Fam Youth / Comm Sci	19	4 Grad2	126
	60	FISHERIES & AQUATIC SCIENCES	Fisheries / Aquatic Sci	03	1 Lower	114
	60	FISHERIES & AQUATIC SCIENCES	Fisheries / Aquatic Sci	03	2 Upper	244
	60	FISHERIES & AQUATIC SCIENCES	Fisheries / Aquatic Sci	03	3 Grad1	528

Weight Rollup To College

College	CIP	Fundable Student Credit Hours					Weight by CIP					Weight * SCH by CIP and by Level				
		Lower	Upper	Grad I	Grad II	Grad III	Lower	Upper	Grad I	Grad II	Grad III	Lower	Upper	Grad I	Grad II	Grad III
Engineering	11	5,736	8,542	5,217	2,704		0.78	4.32	12.20	18.45		4,456	36,900	63,642	49,899	0
Engineering	14	9,611	56,741	19,217	17,007		2.85	4.83	16.90	20.10		27,417	274,087	324,826	341,775	0
Engineering Total		15,347	65,283	24,434	19,711							31,874	310,987	388,468	391,674	0
Law	22			36,114	29				7.71	9.42		0	0	278,344	273	0
Law Total				36,114	29							0	0	278,344	273	0
Nursing	51		11,347	6,398	937		0.60	4.48	4.68	14.59		0	50,818	29,943	13,667	0
Nursing Total			11,347	6,398	937							0	50,818	29,943	13,667	0
Dentistry	51		22	2,648		13,200	0.60	4.48	4.68	14.59	14.23	0	99	12,393	0	187,772
Dentistry Total			22	2,648		13,200						0	99	12,393	0	187,772

College	Weight*SCH/Total SCH on Each Level				
	Lower	Upper	Grad I	Grad II	Grad III
Engineering	2.08	4.76	15.90	19.87	
Law			7.71	9.42	
Nursing		4.48	4.68	14.59	
Dentistry		4.48	4.68		14.23

Weight by College - UF

College	Lower	Upper	Grad I	Grad II	Grad III
Fine Arts	3.35	4.40	17.45	20.12	
Design, Construction, and Planning	2.81	3.90	8.93	3.43	
Liberal Arts & Sciences	1.84	2.88	16.87	20.23	
Business Administration	1.00	1.40	12.08	29.03	
Education	0.93	2.04	6.34	12.18	
Engineering	1.80	4.14	13.80	17.25	
Journalism & Communications	1.88	1.90	17.23	18.19	
Law			6.69	8.18	
Health & Human Performance	0.88	1.32	8.56	15.23	
Veterinary Medicine		3.89	4.06	12.66	15.40
Medicine		3.87	5.59	14.70	11.29
Nursing		3.89	4.06	12.66	
Pharmacy		3.89	4.06	12.66	
Public Health & Health Professions	0.52	3.64	4.30	12.78	
Dentistry		3.89	4.06		12.35
DOCE	0.96	2.07			
Latin American Studies	2.78	9.80	28.85	21.80	
CALS	1.20	3.18	13.24	17.60	

Cost per SCH by CIP - Ohio

CIP Name	CIP Code	Lower	Upper	Grad I	Grad II	Grad III
Agriculture, Agriculture Operations, and Related Sciences	01	\$731.43	\$731.43	\$1,256.12	\$1,144.84	
Natural Resources and Conservation	03	\$554.50	\$554.50	\$743.59	\$921.42	
Architecture and Related Services	04	\$511.68	\$511.68	\$811.29	\$1,033.83	
Area, Ethnic, Cultural, and Gender Studies	05	\$370.37	\$370.37	\$924.79	\$1,053.51	
Communication, Journalism, and Related Programs	09	\$387.22	\$387.22	\$1,153.35	\$1,281.54	
Communications Technologies/Technicians and Support Services	10	\$334.78	\$334.78			
Computer and Information Sciences and Support Services	11	\$508.08	\$508.08	\$862.34	\$1,011.92	
Personal and Culinary Services	12	\$1,314.54	\$1,314.54			
Education	13	\$369.83	\$369.83	\$577.51	\$977.61	
Engineering	14	\$598.75	\$598.75	\$1,266.96	\$1,304.63	
Engineering Technologies/Technicians	15	\$539.89	\$539.89	\$1,558.97	\$1,443.78	
Foreign languages, literatures, and Linguistics	16	\$380.31	\$380.31	\$941.04	\$1,307.64	
Family and Consumer Sciences/Human Sciences	19	\$304.49	\$304.49	\$1,433.18	\$1,627.98	
Legal Professions and Studies	22	\$340.03	\$340.03	\$1,153.45		\$861.46
English Language and Literature/Letters	23	\$367.65	\$367.65	\$930.30	\$997.22	
Liberal Arts and Sciences, General Studies and Humanities	24	\$613.08	\$613.08	\$1,283.14	\$1,187.91	
Library Science	25	\$1,212.07	\$1,212.07	\$538.74		
Biological and Biomedical Sciences	26	\$454.50	\$454.50	\$1,200.97	\$1,105.20	
Mathematics and Statistics	27	\$349.87	\$349.87	\$990.23	\$1,394.02	
Reserve Officer Training Corps (JROTC, ROTC)	28	\$973.80	\$973.80			
Military Technologies	29	\$434.79	\$434.79			
Multi/Interdisciplinary Studies	30	\$579.55	\$579.55	\$900.90	\$1,226.19	
Parks, Recreation, Leisure, and Fitness Studies	31	\$394.95	\$394.95	\$866.16	\$1,270.70	
Leisure and Recreational Activities	36	\$512.69	\$512.69			
Philosophy and Religious Studies	38	\$345.11	\$345.11	\$1,081.68	\$1,301.79	
Physical Sciences	40	\$532.07	\$532.07	\$1,466.57	\$1,271.23	
Psychology	42	\$318.16	\$318.16	\$793.13	\$1,025.37	
Security and Protective Services	43	\$301.54	\$301.54	\$507.43	\$718.48	
Public Administration and Social Service Professions	44	\$370.40	\$370.40	\$478.60	\$746.99	
Social Sciences	45	\$362.36	\$362.36	\$873.13	\$1,200.37	
Mechanic and Repair Technologies/Technicians	47	\$5,764.72	\$5,764.72			
Transportation and Materials Moving	49	\$719.84	\$719.84	\$10,216.71	\$546.59	
Visual and Performing Arts	50	\$508.64	\$508.64	\$1,129.96	\$1,046.90	
Health Professions and Related Clinical Sciences	51	\$447.18	\$447.18	\$768.42	\$1,259.84	\$1,554.31
Business, Management, Marketing, and Related Support Services	52	\$387.83	\$387.83	\$661.57	\$2,389.44	
History (new)	54	\$351.73	\$351.73	\$1,034.36	\$1,273.44	

3.95

Weight on Cost Per SCH by CIP - Ohio

CIP Name	CIP Code	Lower	Upper	Grad I	Grad II	Grad III
Agriculture, Agriculture Operations, and Related Sciences	01	2.30	2.30	3.95	3.60	
Natural Resources and Conservation	03	1.74	1.74	2.34	2.90	
Architecture and Related Services	04	1.61	1.61	2.55	3.25	
Area, Ethnic, Cultural, and Gender Studies	05	1.16	1.16	2.91	3.31	
Communication, Journalism, and Related Programs	09	1.22	1.22	3.63	4.03	
Communications Technologies/Technicians and Support Services	10	1.05	1.05			
Computer and Information Sciences and Support Services	11	1.60	1.60	2.71	3.18	
Personal and Culinary Services	12	4.13	4.13			
Education	13	1.16	1.16	1.82	3.07	
Engineering	14	1.88	1.88	3.98	4.10	
Engineering Technologies/Technicians	15	1.70	1.70	4.90	4.54	
Foreign languages, literatures, and Linguistics	16	1.20	1.20	2.96	4.11	
Family and Consumer Sciences/Human Sciences	19	0.96	0.96	4.50	5.12	
Legal Professions and Studies	22	1.07	1.07	3.63		2.71
English Language and Literature/Letters	23	1.16	1.16	2.92	3.13	
Liberal Arts and Sciences, General Studies and Humanities	24	1.93	1.93	4.03	3.73	
Library Science	25	3.81	3.81	1.69		
Biological and Biomedical Sciences	26	1.43	1.43	3.77	3.47	
Mathematics and Statistics	27	1.10	1.10	3.11	4.38	
Reserve Officer Training Corps (JROTC, ROTC)	28	3.06	3.06			
Military Technologies	29	1.37	1.37			
Multi/Interdisciplinary Studies	30	1.82	1.82	2.83	3.85	
Parks, Recreation, Leisure, and Fitness Studies	31	1.24	1.24	2.72	3.99	
Leisure and Recreational Activities	36	1.61	1.61			
Philosophy and Religious Studies	38	1.08	1.08	3.40	4.09	
Physical Sciences	40	1.67	1.67	4.61	4.00	
Psychology	42	1.00	1.00	2.49	3.22	
Security and Protective Services	43	0.95	0.95	1.59	2.26	
Public Administration and Social Service Professions	44	1.16	1.16	1.50	2.35	
Social Sciences	45	1.14	1.14	2.74	3.77	
Mechanic and Repair Technologies/Technicians	47	18.12	18.12			
Transportation and Materials Moving	49	2.26	2.26	32.11	1.72	
Visual and Performing Arts	50	1.60	1.60	3.55	3.29	
Health Professions and Related Clinical Sciences	51	1.41	1.41	2.42	3.96	4.89
Business, Management, Marketing, and Related Support Services	52	1.22	1.22	2.08	7.51	
History (new)	54	1.11	1.11	3.25	4.00	

Appropriation Formula

Fine Arts student credit hours and weights in all level are listed below:

	Lower	Upper	Grad I	Grad II
SCH	22,441	16,008	3,216	856
Weight	3.35	4.40	17.45	20.12

$$\begin{aligned} \text{Appropriation} &= 22,441 * 3.35 * \text{BSA} \\ &+ 16,008 * 4.40 * \text{BSA} \\ &+ 3,216 * 17.45 * \text{BSA} \\ &+ 856 * 20.12 * \text{BSA} \end{aligned}$$

$$\text{Appropriation} = \sum_{\text{level}} \text{Level Weight} * \text{Level SCH} * \text{BSA}$$

BSA – How to Calculate

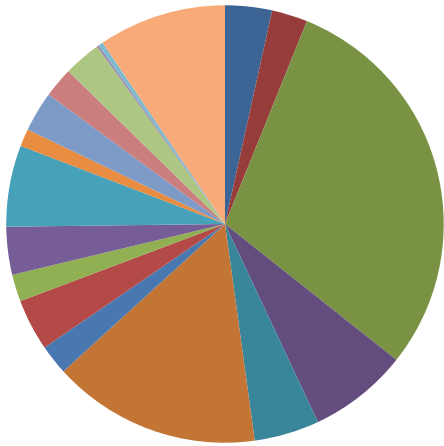
UF has \$600M state funding to allocate

$$\$600 \text{ M} = \sum_{\text{college}} \sum_{\text{level}} \text{Level Weight} * \text{Level SCH} * \text{BSA}$$

Known: Level weight, level SCH, total funding

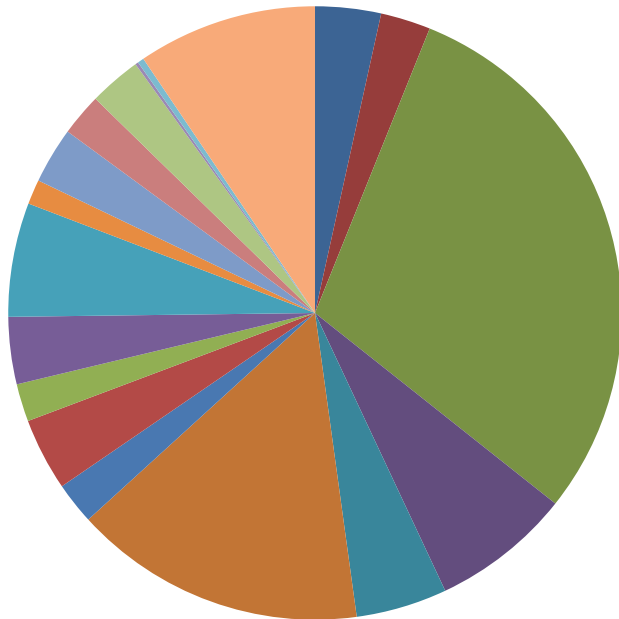
Unknown: BSA

BSA – What Does It Mean



BSA \uparrow when total funding \uparrow

BSA \downarrow when total funding \downarrow

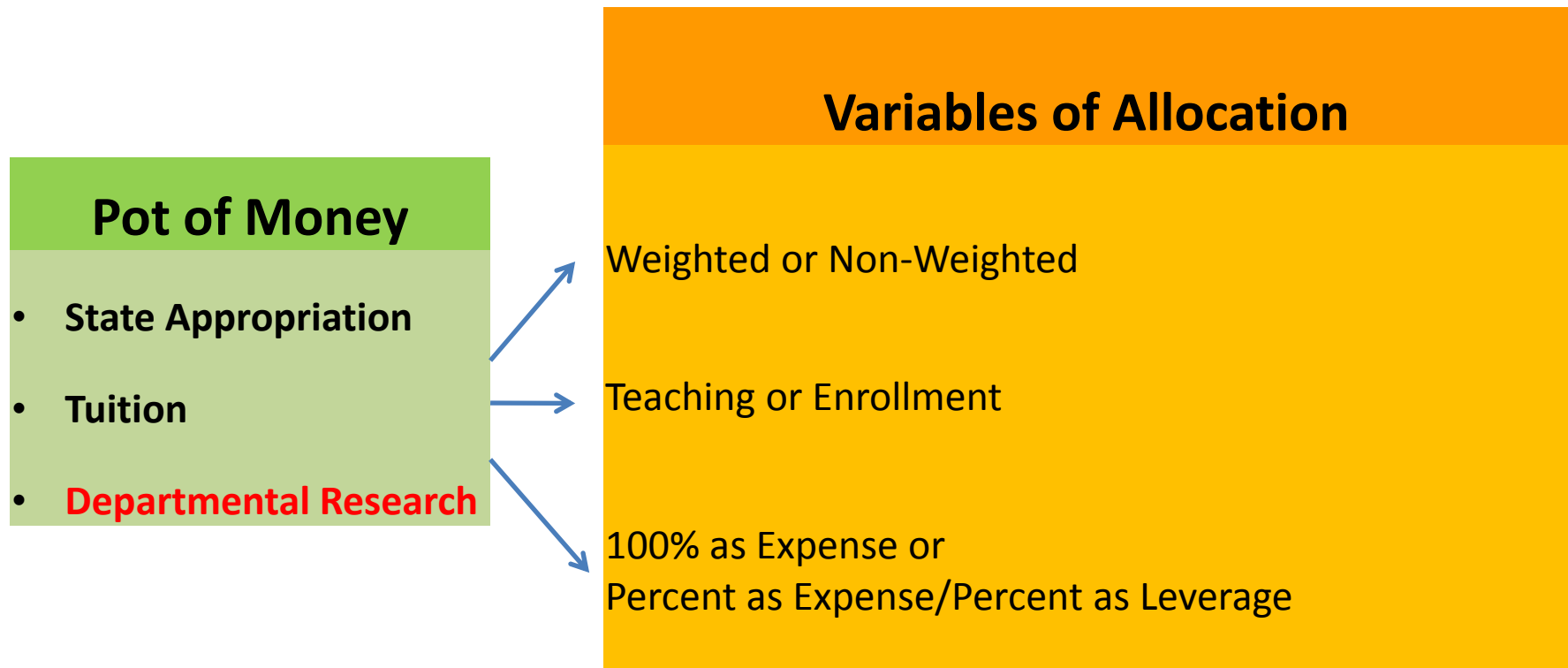


- BSA is the allocation unit.
- BSA is the amount for one SCH with weight 1 for a given funding.

Source of Data

- UF and SUS
 - 2006-07 SUS Expenditure Analysis
 - <http://flbog.org/about/budget/expendanalysis.php>
- OHIO
 - All Ohio public universities

Appropriation Variables



Appropriation Models

Departmental Research 100% as Expense

Pot of Money	Model 1	Model 2	Model 3	Model 4	Model 5
State Appropriation	Non-Weighted, 100% Teaching	Weighted, 100% Teaching	Weighted, 100% Teaching	Weighted, 70% Teaching/ 30% Enrollment	Weighted, 70% Teaching/ 30% Enrollment
Tuition	Non-Weighted, 100% Teaching	Weighted, 100% Teaching	Non-Weighted, 100% Enrollment	Non-Weighted, 70% Teaching/ 30% Enrollment	Weighted, 70% Teaching/ 30% Enrollment

Departmental Research 50% as Expense, 50% allocated using Leverage

Pot of Money	Model 6	Model 7	Model 8	Model 9
State Appropriation	Weighted, 100% Teaching	Weighted, 100% Teaching	Weighted, 70% Teaching/ 30% Enrollment	Weighted, 70% Teaching/ 30% Enrollment
Tuition	Weighted, 100% Teaching	Non-Weighted, 100% Enrollment	Non-Weighted, 70% Teaching/ 30% Enrollment	Weighted, 70% Teaching/ 30% Enrollment
Departmental Research	Leverage	Leverage	Leverage	Leverage

Next Step

- Finish all appropriation models
- Incorporate overhead allocations
- Review and analyze models

Questions and Comments?