

RESEARCH BRIEF

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Programmatic Mix by Campus: Fall 2015

A key determinant in state allocation of funds to institutions of higher education in Virginia is student-faculty ratio. Historically, the State Council of Higher Education for Virginia (SCHEV) has maintained a student-faculty ratio for each discipline (e.g., English, Art, Biology, etc.). These ratios recommended by the state are called the 'Funding Ratio' or 'Current Funded Ratio' and are merely recommendations to colleges in determining their operations.

Once colleges receive state funding driven largely by funding ratio, institutions like NOVA with multiple campuses need mechanisms to ensure that the variation in discipline concentration are sufficiently factored in the resource allocations. Allocations of resources, especially teaching faculty positions, are influenced by the student-faculty ratio of the disciplines offered in each campus. In order to make meaningful resource allocations, many institutions use a methodology called 'Programmatic Mix.'

Tables 2 to 7 show how Programmatic Mix is calculated for each campus. Credit hours is defined by the number of enrolled students multiplied by the credit value of the course. Credit hours are then multiplied by the student-faculty ratio. The total multiple is divided by the total credit hours to determine the weighted average student-faculty ratio for the campus, or Programmatic Mix. While the state-recommended student-faculty ratios are at the discipline level, the Programmatic Mix addresses the same issue at the campus level.

For example, a campus like MEC generally has disciplines with lower student-faculty ratios (e.g., 11:1 – 11 full-time equivalent students for one faculty), and a campus like Alexandria has many large disciplines with higher ratios (e.g., 26:1). Therefore, a campus with a lower overall ratio ('Programmatic Mix') will need relatively more full-time equivalent faculty to teach a comparable number of full-time equivalent students.

Table 1. Programmatic Mix by Campus: Fall 2015

Campus	Credit Hours	Multiple*	Programmatic Mix
Alexandria	83,434	1,972,720.6	23.6
Annandale	154,013	3,712,177.6	24.1
Loudoun	80,255	1,955,520.6	24.4
Manassas	58,370	1,410,182.6	24.2
Medical Education	12,683	146,007.5	11.5
Woodbridge	65,233	1,533,631.6	23.5
College	453,988	10,730,241.0	23.6

*'Multiple' is only a methodological step in calculating Programmatic Mix and does not have any conceptual meaning.

Table 2. Programmatic Mix at the Alexandria Campus – Fall 2015

Course Campus: Alexandria				
Discipline	Credit Hours	Current Funded Ratio	Multiple*	Programmatic Mix
ACC	2,001	19.9	39,819.9	---
ADJ	603	19.9	11,999.7	---
ARA	457	19.9	9,094.3	---
ARC	533	15.4	8,208.2	---
ART	3,097	19.9	61,630.3	---
AST	30	19.9	597.0	---
AUB	180	15.4	2,772.0	---
AUT	1,469	15.4	22,622.6	---
BIO	6,532	26.5	173,098.0	---
BLD	313	15.4	4,820.2	---
BSK	24	19.9	477.6	---
BUS	1,281	19.9	25,491.9	---
CAD	360	14.3	5,148.0	---
CHD	1,458	19.9	29,014.2	---
CHI	279	19.9	5,552.1	---
CHM	2,180	26.5	57,770.0	---
CIV	177	15.4	2,725.8	---
CON	42	19.9	835.8	---
CSC	982	26.5	26,023.0	---
CST	4,317	26.5	114,400.5	---
ECO	1,899	26.5	50,323.5	---
EDU	81	19.9	1,611.9	---
EGR	316	15.4	4,866.4	---
ENF	1,190	19.9	23,681.0	---
ENG	7,500	26.5	198,750.0	---
ENV	296	15.4	4,558.4	---
ESL	6,411	23.2	148,735.2	---
FIN	117	19.9	2,328.3	---
FRE	522	19.9	10,387.8	---
GEO	276	26.5	7,314.0	---
GER	72	19.9	1,432.8	---
GOL	501	26.5	13,276.5	---
HIS	4,740	26.5	125,610.0	---
HLT	165	11.0	1,815.0	---
HMS	408	19.9	8,119.2	---
HUM	202	26.5	5,353.0	---
ITA	111	19.9	2,208.9	---
ITD	393	19.9	7,820.7	---
ITE	3,336	19.9	66,386.4	---
ITN	2,256	19.9	44,894.4	---
ITP	898	19.9	17,870.2	---
JPN	251	19.9	4,994.9	---
LAT	99	19.9	1,970.1	---
LGL	813	19.9	16,178.7	---
MKT	141	19.9	2,805.9	---
MTH	7,209	26.5	191,038.5	---
MTT	2,424	19.9	48,237.6	---
MUS	1,120	19.9	22,288.0	---
NAS	212	15.4	3,264.8	---
PED	1,507	26.5	39,935.5	---
PHI	522	26.5	13,833.0	---

Course Campus: Alexandria				
Discipline	Credit Hours	Current Funded Ratio	Multiple*	Programmatic Mix
PHT	905	19.9	18,009.5	---
PHY	1,419	26.5	37,603.5	---
PLS	573	26.5	15,184.5	---
POR	21	19.9	417.9	---
PSY	3,858	26.5	102,237.0	---
REA	88	19.9	1,751.2	---
REL	444	26.5	11,766.0	---
RUS	82	19.9	1,631.8	---
SDV	1,326	26.5	35,139.0	---
SOC	906	26.5	24,009.0	---
SPA	1,365	19.9	27,163.5	---
SSC	144	26.5	3,816.0	---
Campus	83,434		1,972,720.6	23.6

Multiple is only a methodological step in calculating Programmatic Mix and does not have any conceptual meaning.

Table 3. Programmatic Mix at the Annandale Campus – Fall 2015

Course Campus: Annandale				
Discipline	Credit Hours	Current Funded Ratio	Multiple*	Programmatic Mix
ACC	2,964	19.9	58,983.6	---
ADJ	2,047	19.9	40,735.3	---
ARA	494	19.9	9,830.6	---
ARC	543	15.4	8,362.2	---
ART	4,204	19.9	83,659.6	---
ASL	1,000	19.9	19,900.0	---
BIO	13,924	26.5	368,986.0	---
BSK	32	19.9	636.8	---
BUS	4,077	19.9	81,132.3	---
CAD	344	14.3	4,919.2	---
CHI	162	19.9	3,223.8	---
CHM	3,968	26.5	105,152.0	---
CSC	2,726	26.5	72,239.0	---
CST	7,644	26.5	202,566.0	---
DIT	1,485	11.0	16,335.0	---
ECO	4,698	26.5	124,497.0	---
EDU	87	19.9	1,731.3	---
EGR	2,004	15.4	30,861.6	---
ENF	2,374	19.9	47,242.6	---
ENG	16,773	26.5	444,484.5	---
ENV	256	15.4	3,942.4	---
ESL	8,795	23.2	204,044.0	---
FIN	315	19.9	6,268.5	---
FRE	502	19.9	9,989.8	---
FST	225	19.9	4,477.5	---
GEO	156	26.5	4,134.0	---
GER	238	19.9	4,736.2	---
GOL	1,074	26.5	28,461.0	---
HIS	9,084	26.5	240,726.0	---
HLT	651	11.0	7,161.0	---
HRI	1,316	19.9	26,188.4	---
HUM	447	26.5	11,845.5	---
INT	228	19.9	4,537.2	---

Course Campus: Annandale				
Discipline	Credit Hours	Current Funded Ratio	Multiple*	Programmatic Mix
ITD	360	19.9	7,164.0	---
ITE	6,342	19.9	126,205.8	---
ITN	1,653	19.9	32,894.7	---
ITP	943	19.9	18,765.7	---
JPN	545	19.9	10,845.5	---
KOR	246	19.9	4,895.4	---
MEC	39	15.4	600.6	---
MKT	774	19.9	15,402.6	---
MTH	18,274	26.5	484,261.0	---
MTT	4,076	19.9	81,112.4	---
MUS	1,157	19.9	23,024.3	---
NAS	1,424	15.4	21,929.6	---
PED	3,199	26.5	84,773.5	---
PHI	2,058	26.5	54,537.0	---
PHY	3,281	26.5	86,946.5	---
PLS	1,314	26.5	34,821.0	---
PSY	5,292	26.5	140,238.0	---
REA	92	19.9	1,830.8	---
REL	681	26.5	18,046.5	---
RPK	225	19.9	4,477.5	---
RUS	237	19.9	4,716.3	---
SDV	2,802	26.5	74,253.0	---
SOC	2,367	26.5	62,725.5	---
SPA	1,612	19.9	32,078.8	---
TRV	183	19.9	3,641.7	---
Campus	154,013		3,712,177.6	24.1

*'Multiple' is only a methodological step in calculating Programmatic Mix and does not have any conceptual meaning.

Table 4. Programmatic Mix at the Loudoun Campus – Fall 2015

Course Campus: Loudoun				
Discipline	Credit Hours	Current Funded Ratio	Multiple*	Programmatic Mix
ACC	1,991	19.9	39,620.9	---
ART	2,006	19.9	39,919.4	---
BIO	4,795	26.5	127,067.5	---
BSK	32	19.9	636.8	---
BUS	1,909	19.9	37,989.1	---
CHD	822	19.9	16,357.8	---
CHM	1,933	26.5	51,224.5	---
CSC	1,205	26.5	31,932.5	---
CST	3,420	26.5	90,630.0	---
ECO	1,740	26.5	46,110.0	---
EDU	84	19.9	1,671.6	---
EGR	147	15.4	2,263.8	---
ENF	1,440	19.9	28,656.0	---
ENG	12,717	26.5	337,000.5	---
ENV	644	15.4	9,917.6	---
ESL	2,330	23.2	54,056.0	---
FIN	120	19.9	2,388.0	---
FRE	100	19.9	1,990.0	---
GEO	759	26.5	20,113.5	---
GIS	238	19.9	4,736.2	---

Course Campus: Loudoun				
Discipline	Credit Hours	Current Funded Ratio	Multiple*	Programmatic Mix
GOL	1,440	26.5	38,160.0	---
HIS	8,025	26.5	212,662.5	---
HLT	201	11.0	2,211.0	---
HRT	392	15.4	6,036.8	---
HUM	123	26.5	3,259.5	---
IDS	543	19.9	10,805.7	---
ITD	306	19.9	6,089.4	---
ITE	2,868	19.9	57,073.2	---
ITN	1,022	19.9	20,337.8	---
ITP	745	19.9	14,825.5	---
MKT	146	19.9	2,905.4	---
MTH	9,524	26.5	252,386.0	---
MTT	3,130	19.9	62,287.0	---
MUS	689	19.9	13,711.1	---
NAS	292	15.4	4,496.8	---
PED	915	26.5	24,247.5	---
PHI	588	26.5	15,582.0	---
PHY	1,416	26.5	37,524.0	---
PLS	1,122	26.5	29,733.0	---
PSY	3,165	26.5	83,872.5	---
REL	381	26.5	10,096.5	---
RUS	90	19.9	1,791.0	---
SDV	1,635	26.5	43,327.5	---
SOC	1,074	26.5	28,461.0	---
SPA	808	19.9	16,079.2	---
VEN	60	15.4	924.0	---
VET	1,123	11.0	12,353.0	---
Campus	80,255		1,955,520.6	24.4

*'Multiple' is only a methodological step in calculating Programmatic Mix and does not have any conceptual meaning.

Table 5. Programmatic Mix at the Manassas Campus – Fall 2015

Course Campus: Manassas				
Discipline	Credit Hours	Current Funded Ratio	Multiple*	Programmatic Mix
ACC	774	19.9	15,402.6	---
ADJ	915	19.9	18,208.5	---
ARA	142	19.9	2,825.8	---
ART	2,336	19.9	46,486.4	---
AUT	1,080	15.4	16,632.0	---
BIO	4,951	26.5	131,201.5	---
BSK	13	19.9	258.7	---
BUS	1,101	19.9	21,909.9	---
CHD	929	19.9	18,487.1	---
CHM	1,242	26.5	32,913.0	---
CSC	1,248	26.5	33,072.0	---
CST	2,739	26.5	72,583.5	---
DSL	139	15.4	2,140.6	---
ECO	1,431	26.5	37,921.5	---
EDU	441	19.9	8,775.9	---
EGR	331	15.4	5,097.4	---
ENF	1,004	19.9	19,979.6	---
ENG	7,644	26.5	202,566.0	---

Course Campus: Manassas				
Discipline	Credit Hours	Current Funded Ratio	Multiple*	Programmatic Mix
ENV	300	15.4	4,620.0	---
ESL	1,980	23.2	45,936.0	---
FRE	148	19.9	2,945.2	---
GEO	198	26.5	5,247.0	---
GOL	140	26.5	3,710.0	---
HIS	3,597	26.5	95,320.5	---
HLT	231	11.0	2,541.0	---
ITD	393	19.9	7,820.7	---
ITE	2,148	19.9	42,745.2	---
ITN	928	19.9	18,467.2	---
ITP	351	19.9	6,984.9	---
MKT	84	19.9	1,671.6	---
MTH	6,461	26.5	171,216.5	---
MTT	2,557	19.9	50,884.3	---
MUS	132	19.9	2,626.8	---
NAS	220	15.4	3,388.0	---
PED	1,158	26.5	30,687.0	---
PHI	216	26.5	5,724.0	---
PHY	891	26.5	23,611.5	---
PLS	633	26.5	16,774.5	---
PSY	3,906	26.5	103,509.0	---
REL	135	26.5	3,577.5	---
SDV	1,085	26.5	28,752.5	---
SOC	960	26.5	25,440.0	---
SPA	717	19.9	14,268.3	---
WEL	341	15.4	5,251.4	---
Campus	58,370		1,410,182.6	24.2

*'Multiple' is only a methodological step in calculating Programmatic Mix and does not have any conceptual meaning.

Table 6. Programmatic Mix at the Medical Education Campus – Fall 2015

Course Campus: Medical Education				
Discipline	Credit Hours	Current Funded Ratio	Multiple*	Programmatic Mix
DMS	355	11.0	3,905.0	---
DNA	182	11.0	2,002.0	---
DNH	925	11.0	10,175.0	---
EMS	1,587	11.0	17,457.0	---
HIM	1,094	11.0	12,034.0	---
HIT	28	11.0	308.0	---
HLT	1,742	11.0	19,162.0	---
MDL	306	11.0	3,366.0	---
NUR	3,336	11.0	36,696.0	---
OCT	331	11.0	3,641.0	---
PTH	826	11.0	9,086.0	---
RAD	1,053	11.0	11,583.0	---
ROC	65	11.0	715.0	---
RTH	434	11.0	4,774.0	---
SDV	419	26.5	11,103.5	---
Campus	12,683		146,007.5	11.5

*'Multiple' is only a methodological step in calculating Programmatic Mix and does not have any conceptual meaning.

Table 7. Programmatic Mix at the Woodbridge Campus – Fall 2015

Course Campus: Woodbridge				
Discipline	Credit Hours	Current Funded Ratio	Multiple*	Programmatic Mix
ACC	3,132	19.9	62,326.8	---
ADJ	1,536	19.9	30,566.4	---
AIR	1,340	15.4	20,636.0	---
ARA	92	19.9	1,830.8	---
ART	2,773	19.9	55,182.7	---
AST	183	19.9	3,641.7	---
BIO	3,781	26.5	100,196.5	---
BSK	13	19.9	258.7	---
BUS	2,928	19.9	58,267.2	---
CHM	1,052	26.5	27,878.0	---
CON	129	19.9	2,567.1	---
CSC	598	26.5	15,847.0	---
CST	3,162	26.5	83,793.0	---
ECO	1,641	26.5	43,486.5	---
EDU	42	19.9	835.8	---
ENF	1,130	19.9	22,487.0	---
ENG	8,997	26.5	238,420.5	---
ENV	168	15.4	2,587.2	---
ESL	1,814	23.2	42,084.8	---
FIN	204	19.9	4,059.6	---
FRE	90	19.9	1,791.0	---
GEO	252	26.5	6,678.0	---
GER	227	19.9	4,517.3	---
GOL	280	26.5	7,420.0	---
HIS	4,239	26.5	112,333.5	---
HLT	375	11.0	4,125.0	---
HUM	189	26.5	5,008.5	---
ITD	504	19.9	10,029.6	---
ITE	3,683	19.9	73,291.7	---
ITN	2,084	19.9	41,471.6	---
ITP	1,189	19.9	23,661.1	---
MKT	51	19.9	1,014.9	---
MTH	4,670	26.5	123,755.0	---
MTT	2,781	19.9	55,341.9	---
MUS	248	19.9	4,935.2	---
NAS	72	15.4	1,108.8	---
PED	812	26.5	21,518.0	---
PHI	267	26.5	7,075.5	---
PHT	471	19.9	9,372.9	---
PHY	336	26.5	8,904.0	---
PLS	294	26.5	7,791.0	---
PSY	2,451	26.5	64,951.5	---
REL	318	26.5	8,427.0	---
SDV	1,581	26.5	41,896.5	---
SOC	1,437	26.5	38,080.5	---
SPA	1,617	19.9	32,178.3	---
Campus	65,233		1,533,631.6	23.5

*'Multiple' is only a methodological step in calculating Programmatic Mix and does not have any conceptual meaning.

Table 8. REFERENCE – Discipline Prefixes and Descriptions

Prefix	Description	Prefix	Description
ACC	Accounting	HRI	Hospitality Management
ADJ	Administration of Justice	HRT	Horticulture
AIR	Air Conditioning and Refrigeration	HUM	Humanities
ARA	Arabic	IDS	Interior Design
ARC	Architecture	INT	Interpreter Education
ART	Arts	ITA	Italian
ASL	American Sign Language	ITD	Information Technology Database and Design
AST	Administrative Support Technology	ITE	Information Technology Essentials
AUB	Auto Body	ITN	Information Technology Networking
AUT	Automotive	ITP	Information Technology Programming
BIO	Biology	JPN	Japanese
BLD	Building	KOR	Korean
BSK	Basic Skills	LAT	Latin
BUS	Business Management and Administration	LBR	Library Technology
CAD	Computer Aided Drafting	LGL	Paralegal Studies
CHD	Childhood Development	MDL	Medical Laboratory
CHI	Chinese	MEC	Mechanical Engineering Technology
CHM	Chemistry	MKT	Marketing
CIV	Civil Engineering Technology	MTH	Mathematics
CON	Contract Management	MTT	Mathematics: Developmental
CSC	Computer Science	MUS	Music
CST	Communication Studies and Theatre	NAS	Natural Science
DIT	Dietetics	NUR	Nursing
DMS	Diagnostic Medical Sonography	OCT	Occupational Therapy
DNA	Dental Assisting	PBS	Public Service
DNH	Dental Hygiene	PED	Physical Education and Recreation
DSL	Diesel	PHI	Philosophy
ECO	Economics	PHT	Photography
EDU	Education	PHY	Physics
EGR	Engineering	PLS	Political Science
ELE	Electrical Technology	POR	Portuguese
EMS	Emergency Medical Services	PSY	Psychology
ENF	English Fundamentals	PTH	Physical Therapist Assistant
ENG	English	RAD	Radiology
ENV	Environmental Science	REA	Real Estate
ESL	English as a Second Language	REL	Religion
ETR	Electronics Technology	ROC	Radiation Oncology
FIN	Financial Services	RPK	Recreation and Parks
FRE	French	RTH	Respiratory Therapy
FST	Fire Science Technology	RUS	Russian
GEO	Geography	SDV	Student Development
GER	German	SOC	Sociology
GIS	Geographic Information Systems	SPA	Spanish
GOL	Geology	SSC	Social Science
GRE	Greek	TRV	Travel and Tourism
HIM	Health Information Management	VEN	Viticulture and Enology
HIS	History	VET	Veterinary Technology
HIT	Health Information Technology	VTN	Vietnamese
HLT	Health	WEL	Welding
HMS	Human Services		