

Undergraduate Programs in Alphabetical Order
Quantitative Reasoning (QR) Colonnade General Education Requirements (Math)

MAJOR Ref. #	Major Description	QR (MATH) Recommendation	DEGREE	Department/School	College	NOTES	Catalog Info
602	ACCOUNTING	123	BS	ACCOUNTING	BU	MATH 116 equivalent acceptable for transfer students.	MATH 123 or any calculus class or a Math ACT of at least 26 or a Math SAT of at least 610,
727	ADVERTISING	109 or above	AB	COMMUNICATION	AR		N/A
205	AGRICULTURAL TECH & MANAGEMENT	116 (see note)	AS	AGRICULTURE	SC	Ag Tech & Mgmt, and Ag Tech, Turf suggest 115 or 116	MATH 116, except Ag Tech & Mgmt, and At tech, Turf suggest 115 or 116
508	AGRICULTURE	115 or higher (see note)	BS	AGRICULTURE	SC		MATH 115 or higher, excepts Pre-Vet Medicine requires MATH 116 or higher
605	AGRICULTURE (minor required)	116	BS	AGRICULTURE	SC		N/A
608	ANTHROPOLOGY	any QR course	AB	FOLK STUDIES AND ANTHROPOLOGY	AR		N/A
609	ARABIC	109	AB	MODERN LANGUAGES	AR		N/A
518	ARCHITECTURAL SCIENCE	117	BS	ENGINEERING and APPLIED SCIENCES	SC		MATH 117
613	ART HISTORY	109	AB	ART	AR		N/A
615	ASIAN RELIGIONS AND CULTURES	109	AB	PHILOSOPHY & RELIGION	AR		N/A
519	BIOCHEMISTRY	136	BS	OFFICE OF DEAN - SC COLL	SC		MATH 136
525	BIOLOGY	116 or higher (see note)	BS	BIOLOGY	SC	Math 116 & 117 or Math 118 or higher	MATH 116 & 117 or MATH 118 or higher
617	BIOLOGY (minor required)	116 or higher (see note)	BS	BIOLOGY	SC	Math 116 & 117 or Math 118 or higher	MATH 116 & 117 or MATH 118 or higher
726	BROADCASTING	109	AB	JOURNALISM AND BROADCASTING	AR		N/A
288	BUSINESS	109 or 116	AA	PROFESSIONAL STUDIES	ED		MA 116C or 109C
621	BUSINESS & MARKETING EDUCATION	109 or 116	BS	TEACHER EDUCATION	ED		N/A
504	BUSINESS DATA ANALYTICS	123	BS	INFORMATION SYSTEMS	BU	MATH 116 equivalent acceptable for transfer students.	MATH 123 or any calculus class or a Math ACT of at least 26 or a Math SAT of at least 610,
724	BUSINESS ECONOMICS	123	BS	ECONOMICS	BU	MATH 116 equivalent acceptable for transfer students.	MATH 123 or any calculus class or a Math ACT of at least 26 or a Math SAT of at least 610,
623	CHEMISTRY	136	BS	CHEMISTRY	SC	Different for each concentration	136
624	CHINESE	109	AB	MODERN LANGUAGES	AR		N/A
534	CIVIL Engineering	136	BS	ENGINEERING and APPLIED SCIENCES	SC	Additional Math Requirements	MATH 136, 137, 237, 331
595	COMMUNICATION DISORDERS	183	BS	COMMUNICATION SCIENCES & DISORDERS	HH		MATH 183
792	COMMUNICATION STUDIES	109	AB	COMMUNICATION	AR		Math 109, 116, or higher
555	COMPUTER INFO TECH	116	BS	ENGINEERING and APPLIED SCIENCES	SC		MATH 116 or higher
629	COMPUTER SCIENCE	136	BS	COMPUTER SCIENCE	SC	Math 136 and Phil 215 are both required and fulfill QR	MATH 136
533	CONSTRUCTION MANAGEMENT	117	BS	ENGINEERING and APPLIED SCIENCES	SC		MATH 117 or higher
522	CORP & ORG COMMUNICATION	QR	AB	COMMUNICATION	AR	Math 109, 116 or higher	N/A
627	CRIMINOLOGY	109, 116, or 183	AB	SOCIOLOGY	AR		N/A
630	DANCE	109	AB	THEATRE AND DANCE	AR		N/A
226	DENTAL HYGIENE	109, 115, 116 or 117	AS	ALLIED HEALTH	HH		N/A

Undergraduate Programs in Alphabetical Order
Quantitative Reasoning (QR) Colonnade General Education Requirements (Math)

MAJOR Ref. #	Major Description	QR (MATH) Recommendation	DEGREE	Department/School	College	NOTES	Catalog Info
524	DENTAL HYGIENE	109, 115, 116, or 117	BS	ALLIED HEALTH	HH		MATH 109/115/116/117
631	DIVERSITY AND COMMUNITY STUDIES	109 or 115 or 116 or 183	AB	DIVERSITY AND COMMUNITY STUDIES	AR		N/A
249	EARLY CHILD EDUCATION	109	AA	APPLIED HUMAN SCIENCES	HH		MATH 109
678	EARTH SCIENCE	117	AB	GEOGRAPHY AND GEOLOGY	SC		MATH 117
638	ECONOMICS	123	AB	ECONOMICS	BU	MATH 116 equivalent acceptable for transfer students.	MATH 123 or any calculus class or a Math ACT of at least 26 or a Math SAT of at least 610,
537	ELECTRICAL ENGINEERING	136	BS	ENGINEERING and APPLIED SCIENCES	SC	additional Math Requirements	MATH 136, 137, 237, 331
527	ELEMENTARY EDUCATION	112 or 116 or 117 or 136 or 183	BS	TEACHER EDUCATION	ED		MATH 112 or 116 or 117 or 136 or 183 with C grade
662	ENGLISH	109	AB	ENGLISH	AR		N/A
561	ENGLISH FOR SECONDARY TEACHERS	109	AB	ENGLISH	AR		N/A
542	ENTREPRENEURSHIP	123	BS	MANAGEMENT	BU	MATH 116 equivalent acceptable for transfer students.	MATH 123 or any calculus class or a Math ACT of at least 26 or a Math SAT of at least 610,
548	ENVIRONMENTAL HEALTH SCIENCE	116	BS	PUBLIC HEALTH	HH		MATH 116 and 117
554	EXERCISE SCIENCE	116	BS	KINESIOLOGY, RECREATION, SPORT	HH		MATH 116
184	EXPLORING in Arts & Letters	109		College Advising	AR		
186	EXPLORING in Business	116		College Advising	BU		MATH 116 or higher
177	EXPLORING in Health & Human Services	see notes		College Advising	HH	depends on future major, check with advisor	
188	EXPLORING in Education	see notes		College Advising	ED	depends on future major, check with advisor	
189	EXPLORING in Science & Engineering	116 or higher		College Advising	SC		MATH 116 or higher
563	FAMILY & CONSUMER SCIENCE EDUC	109	BS	APPLIED HUMAN SCIENCES	HH		N/A
667	FILM	109	AB	JOURNALISM AND BROADCASTING	AR		N/A
664	FINANCE	123	BS	FINANCE	BU	MATH 116 equivalent acceptable for transfer students.	MATH 123 or any calculus class or a Math ACT of at least 26 or a Math SAT of at least 610,
665	FRENCH	109	AB	MODERN LANGUAGES	AR		N/A
576	GEOGRAPHIC INFORMATION SCIENCE	118 or 116 & 117; and 183	BS	GEOGRAPHY AND GEOLOGY	SC	Math 118 (or 116 & 117) and Math 183 required	MATH 118 or 116 & 117; and 183
675	GEOGRAPHY/ENVIRONMENTAL STUDIES	115 or 116 & 183 (see note)	BS	GEOGRAPHY AND GEOLOGY	SC	MATH 115 or 116 not an option for Karst & Water Resources concentration as MATH 136 is needed	MATH 115 or 116 & 183 (except the Karst and Water Resources Concentration requires MATH 136)
577	GEOLOGY	136	BS	GEOGRAPHY AND GEOLOGY	SC		MATH 136
683	GERMAN	109	AB	MODERN LANGUAGES	AR		N/A
559	HEALTH CARE ADM	109, 115 or higher, or 183	BS	PUBLIC HEALTH	HH	Catalog does not specify, but need to have a statistics course for major, fulfilled with MATH 183, PH 383 (prerequisite of MATH 109 or 115) or SOCL 300 (prereqs of 109, 116 or 183)	N/A
243	HEALTH INFORMATION MANAGEMENT	109 or 116	AS	PUBLIC HEALTH	HH		MATH 109 or 116

Undergraduate Programs in Alphabetical Order
Quantitative Reasoning (QR) Colonnade General Education Requirements (Math)

MAJOR Ref. #	Major Description	QR (MATH) Recommendation	DEGREE	Department/School	College	NOTES	Catalog Info
529	HEALTH INFORMATION MANAGEMENT	109 or 115 or higher	BS	PUBLIC HEALTH	HH	Catalog does not specify, but need to meet prerequisite for required PH 383, which MATH 109 or 115 or higher satisfies	N/A
564	HEALTH SCIENCES	183	BS	PUBLIC HEALTH	HH		MATH 183
695	HISTORY	109	AB	HISTORY	AR		N/A
539	Honors Self-Designed Studies	Any QR	BS	99AR	AR		N/A
566	Honors Self-Designed Studies	Any QR	AB	99AR	AR		N/A
633	Honors Self-Designed Studies (minor)	Any QR	AB	99AR	AR		N/A
634	Honors Self-Designed Studies (minor required)	Any QR	BS	99AR	AR		N/A
707	HOSPITALITY MGT & DIETETICS	109 or 116 or 183 (see note)	BS	APPLIED HUMAN SCIENCES	HH	109 for all but Nutrition & Dietetics Concentration, which requires 183	109 for all but Nutrition & Dietetics Concentration, which requires 183
526	INTERDISCIPL EARLY CHILD ED	109	BS	TEACHER EDUCATION	ED		N/A
558	INTERDISCIPLINARY STUDIES	109 or 115 or 116 or 183	BIS	PROFESSIONAL STUDIES	ED		N/A
246	INTERDISCIPLINARY STUDIES	109 or 115 or 116 or 183	AIS	PROFESSIONAL STUDIES	ED		N/A
531	INTERIOR DESIGN AND FASHION	109	BS	APPLIED HUMAN SCIENCES	HH		N/A
702	INTERNATIONAL AFFAIRS	109, 116, or 183	AB	POLITICAL SCIENCE	AR		N/A
569	INTERNATIONAL BUSINESS	123	BS	MANAGEMENT	BU	MATH 116 equivalent acceptable for transfer students.	MATH 123 or any calculus class or a Math ACT of at least 26 or a Math SAT of at least 610,
736	JOURNALISM	109	AB	JOURNALISM AND BROADCASTING	AR		N/A
723	MANAGEMENT	123	BS	MANAGEMENT	BU	MATH 116 equivalent acceptable for transfer students.	MATH 123 or any calculus class or a Math ACT of at least 26 or a Math SAT of at least 610,
5006	MANUFACTURING ENGINEERING TECHNOLOGY	117 or higher	BS	ENGINEERING and APPLIED SCIENCES	SC		MATH 117 or higher
720	MARKETING	123	BS	MARKETING	BU	MATH 116 equivalent acceptable for transfer students.	MATH 123 or any calculus class or a Math ACT of at least 26 or a Math SAT of at least 610,
731	MATHEMATICAL ECONOMICS	136	BS	ECONOMICS, and MATHEMATICS		joint program with BU and SC Colleges	MATH 136, 137, 237, 307
528	MATHEMATICS	136	AB	MATHEMATICS	SC	additional Math Requirements	MATH 136, 137, and 307 (or 310)
728	MATHEMATICS (minor required)	136	AB	MATHEMATICS	SC	additional Math Requirements	MATH 136, 137, and 307 (or 310)
543	MECHANICAL ENGINEERING	136	BS	ENGINEERING and APPLIED SCIENCES	SC	additional Math Requirements	MATH 136, 137, 237 or 331
5004	MEDICAL LABORATORY SCIENCE	116 & 117 or 118	BS	BIOLOGY	SC		MATH 116 + 117 or MATH 118
578	METEOROLOGY	136	BS	GEOGRAPHY AND GEOLOGY	SC	additional Math Requirements	MATH 136, 137, 237, and 331
730	MIDDLE GRADES MATHEMATICS	136 (see note)	BS	MATHEMATICS	SC	C or above is each course: MATH 136, 183, 205, 206, 225	C or above is each course: MATH 136, 183, 205, 206, 225
5001	MIDDLE LEVEL EDUCATION in Social	109	BS	TEACHER EDUCATION	ED		N/A
734	MIDDLE SCHOOL SCIENCE	117, 136, 142	BS	PHYSICS AND ASTRONOMY	SC		MATH 117, 136, 142
733	MILITARY LEADERSHIP	109	BS	MILITARY SCIENCE	ED		N/A
738	MOLECULAR BIOTECHNOLOGY	117	BS	BIOLOGY	SC		

Undergraduate Programs in Alphabetical Order
Quantitative Reasoning (QR) Colonnade General Education Requirements (Math)

MAJOR Ref. #	Major Description	QR (MATH) Recommendation	DEGREE	Department/School	College	NOTES	Catalog Info
593	MUSIC	109	BM	MUSIC	AR		N/A
583	MUSIC (LIBERAL ARTS)	109	AB	MUSIC	AR		N/A
586	NURSING (OFFICIALLY ADMITTED)	115 or 116	BSN	NURSING	HH		MATH 115 or 116
273	NURSING (OFFICIALLY ADMITTED)	QR	ASN	NURSING	HH		3 hour QR course
596	NURSING (RN TO BSN)	109 or 116	BSN	NURSING	HH	any QR will work	N/A
545	ORGANIZATIONAL LEADERSHIP	109 or 115 or 116 or 183	BS	PROFESSIONAL STUDIES	ED		N/A
276	PARALEGAL STUDIES	109 or 183 or 115 or	AA	PROFESSIONAL STUDIES	AR		N/A
5002	PARALEGAL STUDIES	109 or 183 or 115 or 116	AB	PROFESSIONAL STUDIES	AR		N/A
588	PERFORMING ARTS	109	BFA	THEATRE AND DANCE	AR		N/A
745	PHILOSOPHY	PHIL 215	AB	PHILOSOPHY & RELIGION	AR		PHIL 215
750	PHOTOJOURNALISM	109	AB	JOURNALISM AND BROADCASTING	AR		N/A
587	PHYSICAL EDUCATION	109	BS	KINESIOLOGY, RECREATION, SPORT	HH		N/A
754	PHYSICS	136 or higher	BS	PHYSICS AND ASTRONOMY	SC		MATH 136, 137, 237, 307 (or 370 for applied physics track), and 331
686	POLITICAL SCIENCE	109, 116, or 183	AB	POLITICAL SCIENCE	AR		N/A
758	POPULAR CULTURE STUDIES	109	AB	INTERDISCIPLINARY STUDIES	AR		N/A
747	PSYCHOLOGICAL SCIENCE	183	BS	PSYCHOLOGICAL SCIENCES	SC	MATH 183 (Recommended) or other math course (excluding MATH 109)	Either (1) MATH 116 & MATH 117, or (2) MATH 118 or higher is required; MATH 183 is recommended
760	PSYCHOLOGY	183	AB	PSYCHOLOGY	ED	MATH 183 (Recommended) or other math course (excluding MATH 109)	MATH 183, PHIL 215, or another MATH course excluding MATH 109
521	PUBLIC HEALTH	109 or 115	BS	PUBLIC HEALTH	HH		MATH 109 or 115
763	PUBLIC RELATIONS	109 or above	AB	COMMUNICATION	AR		N/A
589	RECREATION ADMINISTRATION	109 or 183	BS	KINESIOLOGY, RECREATION, SPORT	HH		N/A
769	RELIGIOUS STUDIES	109	AB	PHILOSOPHY & RELIGION	AR		N/A
774	SCIENCE AND MATH EDUCATION	117	BS	TEACHER EDUCATION	ED		MATH 117 or 118
592	SOCIAL STUDIES	109	AB	HISTORY	AR		N/A
594	SOCIAL WORK	183	BSW	SOCIAL WORK	HH		MATH 183
775	SOCIOLOGY	109, 116, or 183	AB	SOCIOLOGY	AR		N/A
778	SPANISH	109	AB	MODERN LANGUAGES	AR		N/A
5003	SPECIAL & ELEMENTARY EDUCATION	112 or 116 or 117 or 136 or 183	BS	TEACHER EDUCATION	ED		MATH 112 or 116 or 117 or 136 or 183 with C grade
572	SPORT MANAGEMENT	109	BS	KINESIOLOGY, RECREATION, SPORT	HH		N/A
575	TECHNOLOGY MANAGEMENT	116	BS	ENGINEERING and APPLIED SCIENCES	SC		MATH 116
798	THEATRE	109	AB	THEATRE AND DANCE	AR		N/A
514	VISUAL ARTS	109	BFA	ART	AR		N/A
509	VISUAL STUDIES	109	AB	ART	AR		N/A
729	Workforce Administration	109 or 115 or 116 or 183	BS	PROFESSIONAL STUDIES	ED		N/A

Degrees (Undergraduate) Offered:
AA = Associate of Arts
AB = Bachelor of Arts
AIS = Associate of Interdisciplinary Studies
AS = Associate of Science

Colleges:
AR: Potter College of Arts & Letters
BU: Gordon Ford College of Business
ED: College of Education and Behavioral Sciences
HH: College of Health and Human Services

Undergraduate Programs in Alphabetical Order
Quantitative Reasoning (QR) Colonnade General Education Requirements (Math)

ASN = Associate of Science in Nursing
BFA = Bachelor of Fine Arts
BIS = Bachelor of Interdisciplinary Studies
BM = Bachelor of Music
BS = Bachelor of Science
BSN = Bachelor of Science in Nursing
BSW = Bachelor of Social Work

SC: Ogden College of Science and Engineering and Applied Sciences

Potter College of Arts and Letters Undergraduate Programs
Quantitative Reasoning (QR) Colonnade General Education Requirements (Math)

MAJOR Ref. #	Major Description	QR (MATH) Recommendation	DEGREE	Department/School	College	NOTES	Catalog Info
727	ADVERTISING	109 or above	AB	COMMUNICATION	AR		N/A
608	ANTHROPOLOGY	Any QR	AB	FOLK STUDIES AND ANTHROPOLOGY	AR		N/A
609	ARABIC	109	AB	MODERN LANGUAGES	AR		N/A
613	ART HISTORY	109	AB	ART	AR		N/A
615	ASIAN RELIGIONS AND CULTURES	109	AB	PHILOSOPHY & RELIGION	AR		N/A
726	BROADCASTING	109	AB	JOURNALISM AND BROADCASTING	AR		N/A
624	CHINESE	109	AB	MODERN LANGUAGES	AR		N/A
792	COMMUNICATION STUDIES	109	AB	COMMUNICATION	AR		Math 109, 116, or higher
522	CORP & ORG COMMUNICATION	QR	AB	COMMUNICATION	AR	Math 109, 116 or higher	N/A
627	CRIMINOLOGY	109, 116, or 183	AB	SOCIOLOGY	AR		N/A
630	DANCE	109	AB	THEATRE AND DANCE	AR		N/A
631	DIVERSITY AND COMMUNITY STUDIES	109 or 115 or 116 or 183	AB	DIVERSITY AND COMMUNITY STUDIES	AR		N/A
662	ENGLISH	109	AB	ENGLISH	AR		N/A
561	ENGLISH FOR SECONDARY TEACHERS	109	AB	ENGLISH	AR		N/A
184	EXPLORING in Arts & Letters	109		College Advising	AR		
802	EXPLORING University College	109 or 115 or 116 or 183		PROFESSIONAL STUDIES	AR	depends on future major, check with advisor	
667	FILM	109	AB	JOURNALISM AND BROADCASTING	AR		N/A
665	FRENCH	109	AB	MODERN LANGUAGES	AR		N/A
683	GERMAN	109	AB	MODERN LANGUAGES	AR		N/A
695	HISTORY	109	AB	HISTORY	AR		N/A
539	Honors Self-Designed Studies	Any QR	BS	Office of the Dean - PCAL	AR		N/A
566	Honors Self-Designed Studies	Any QR	AB	Office of the Dean - PCAL	AR		N/A
633	Honors Self-Designed Studies (minor	Any QR	AB	Office of the Dean - PCAL	AR		N/A
634	Honors Self-Designed Studies (minor required)	Any QR	BS	Office of the Dean - PCAL	AR		N/A
702	INTERNATIONAL AFFAIRS	109, 116, or 183	AB	POLITICAL SCIENCE	AR		N/A
736	JOURNALISM	109	AB	JOURNALISM AND BROADCASTING	AR		N/A
593	MUSIC	109	BM	MUSIC	AR		N/A
583	MUSIC (LIBERAL ARTS)	109	AB	MUSIC	AR		N/A
276	PARALEGAL STUDIES	109 or 183 or 115 or 116	AA	PROFESSIONAL STUDIES	AR		N/A
5002	PARALEGAL STUDIES	109 or 183 or 115 or 116	AB	PROFESSIONAL STUDIES	AR		N/A
588	PERFORMING ARTS	109	BFA	THEATRE AND DANCE	AR		N/A
745	PHILOSOPHY	PHIL 215	AB	PHILOSOPHY & RELIGION	AR		PHIL 215
750	PHOTOJOURNALISM	109	AB	JOURNALISM AND BROADCASTING	AR		N/A
686	POLITICAL SCIENCE	109, 116, or 183	AB	POLITICAL SCIENCE	AR		N/A
758	POPULAR CULTURE STUDIES	109	AB	INTERDISCIPLINARY STUDIES	AR		N/A
763	PUBLIC RELATIONS	109 or above	AB	COMMUNICATION	AR		N/A
769	RELIGIOUS STUDIES	109	AB	PHILOSOPHY & RELIGION	AR		N/A
592	SOCIAL STUDIES	109	AB	HISTORY	AR		N/A
775	SOCIOLOGY	109, 116, or 183	AB	SOCIOLOGY	AR		N/A

Potter College of Arts and Letters Undergraduate Programs
Quantitative Reasoning (QR) Colonnade General Education Requirements (Math)

MAJOR Ref. #	Major Description	QR (MATH) Recommendation	DEGREE	Department/School	College	NOTES	Catalog Info
778	SPANISH	109	AB	MODERN LANGUAGES	AR		N/A
798	THEATRE	109	AB	THEATRE AND DANCE	AR		N/A
514	VISUAL ARTS	109	BFA	ART	AR		N/A
509	VISUAL STUDIES	109	AB	ART	AR		N/A

Degrees (Undergraduate) Offered:
AB = Bachelor of Arts
BFA = Bachelor of Fine Arts
BM = Bachelor of Music
BS = Bachelor of Science
ASN = Associate of Science in Nursing

Gordon Ford College of Business Undergraduate Programs
Quantitative Reasoning (QR) Colonnade General Education Requirements (Math)

MAJOR Ref. #	Major Description	QR (MATH) Recommendation	DEGREE	Department	College	NOTES	Catalog Info
602	ACCOUNTING	123	BS	ACCOUNTING	BU	MATH 116 equivalent acceptable for transfer students.	MATH 123 or any calculus class or a Math ACT of at least 26 or a Math SAT of at least 610,
504	BUSINESS DATA ANALYTICS	123	BS	INFORMATION SYSTEMS	BU	MATH 116 equivalent acceptable for transfer students.	MATH 123 or any calculus class or a Math ACT of at least 26 or a Math SAT of at least 610,
724	BUSINESS ECONOMICS	123	BS	ECONOMICS	BU	MATH 116 equivalent acceptable for transfer students.	MATH 123 or any calculus class or a Math ACT of at least 26 or a Math SAT of at least 610,
638	ECONOMICS	123	AB	ECONOMICS	BU	MATH 116 equivalent acceptable for transfer students.	MATH 123 or any calculus class or a Math ACT of at least 26 or a Math SAT of at least 610,
542	ENTREPRENEURSHIP	123	BS	MANAGEMENT	BU	MATH 116 equivalent acceptable for transfer students.	MATH 123 or any calculus class or a Math ACT of at least 26 or a Math SAT of at least 610,
186	EXPLORING in Business	123		College Advising	BU	MATH 116 equivalent acceptable for transfer students.	MATH 123 or any calculus class or a Math ACT of at least 26 or a Math SAT of at least 610,
664	FINANCE	123	BS	FINANCE	BU	MATH 116 equivalent acceptable for transfer students.	MATH 123 or any calculus class or a Math ACT of at least 26 or a Math SAT of at least 610,
569	INTERNATIONAL BUSINESS	123	BS	MANAGEMENT	BU	MATH 116 equivalent acceptable for transfer students.	MATH 123 or any calculus class or a Math ACT of at least 26 or a Math SAT of at least 610,
723	MANAGEMENT	123	BS	MANAGEMENT	BU	MATH 116 equivalent acceptable for transfer students.	MATH 123 or any calculus class or a Math ACT of at least 26 or a Math SAT of at least 610,
720	MARKETING	123	BS	MARKETING	BU	MATH 116 equivalent acceptable for transfer students.	MATH 123 or any calculus class or a Math ACT of at least 26 or a Math SAT of at least 610,
731	MATHEMATICAL ECONOMICS	136	BS	ECONOMICS, and MATHEMATICS		joint program with BU and SC Colleges	MATH 136, 137, 237, 307

Degrees (Undergraduate) Offered:
AB = Bachelor of Arts
BS = Bachelor of Science

**College of Education and Behavioral Sciences Undergraduate Programs
Quantitative Reasoning (QR) Colonnade General Education Requirements (Math)**

MAJOR Ref. #	Major Description	QR (MATH) Recommendation	DEGREE	Department/School	College	NOTES	Catalog Info
288	BUSINESS	109C or 116C	AA	PROFESSIONAL STUDIES	ED		MA 116C or 109C
621	BUSINESS & MARKETING EDUCATION	109 or 116	BS	TEACHER EDUCATION	ED		N/A
527	ELEMENTARY EDUCATION	112 or 116 or 117 or 136 or 183	BS	TEACHER EDUCATION	ED		MATH 112 or 116 or 117 or 136 or 183 with C grade
188	EXPLORING in Education	see notes		College Advising	ED	depends on future major, check with advisor	
526	INTERDISCIPL EARLY CHILD ED	109	BS	TEACHER EDUCATION	ED		N/A
558	INTERDISCIPLINARY STUDIES	109 or 115 or 116 or 183	BIS	PROFESSIONAL STUDIES	ED		N/A
246	INTERDISCIPLINARY STUDIES	109 or 115 or 116 or 183	AIS	PROFESSIONAL STUDIES	ED		N/A
5001	MIDDLE LEVEL EDUCATION in Social	109	BS	TEACHER EDUCATION	ED		N/A
733	MILITARY LEADERSHIP	109	BS	MILITARY SCIENCE	ED		N/A
545	ORGANIZATIONAL LEADERSHIP	109 or 115 or 116 or 183	BS	PROFESSIONAL STUDIES	ED		N/A
760	PSYCHOLOGY	183	AB	PSYCHOLOGY	ED	MATH 183 (recommended) or other math course (excluding MATH 100)	MATH 183, PHIL 219, or another MATH course including MATH 100
774	SCIENCE AND MATH EDUCATION	116	BS	TEACHER EDUCATION	ED		MATH 117 or 118
5003	SPECIAL & ELEMENTARY EDUCATION	112 or 116 or 117 or 136 or 183	BS	TEACHER EDUCATION	ED		MATH 112 or 116 or 117 or 136 or 183 with C grade
729	Workforce Administration	109 or 115 or 116 or 183	BS	PROFESSIONAL STUDIES	ED		N/A

Degrees (Undergraduate) Offered:
AB = Bachelor of Arts
BS = Bachelor of Science
BIS = Bachelor of Interdisciplinary Studies
AA = Associate of Arts
AIS = Associate of Interdisciplinary Studies

College of Health and Human Services Undergraduate Programs
Quantitative Reasoning (QR) Colonnade General Education Requirements (Math)

MAJOR Ref. #	Major Description	QR (MATH) Recommendation	DEGREE	Department/School	College	NOTES	Catalog Info
595	COMMUNICATION DISORDERS	183	BS	COMMUNICATION SCIENCES & DISORDERS	HH		MATH 183
226	DENTAL HYGIENE	109, 115, 116 or 117	AS	ALLIED HEALTH	HH		N/A
524	DENTAL HYGIENE	109, 115, 116, or 117	BS	ALLIED HEALTH	HH		MATH 109/115/116/117
249	EARLY CHILD EDUCATION	109	AA	APPLIED HUMAN SCIENCES	HH		MATH 109
548	ENVIRONMENTAL HEALTH SCIENCE	116	BS	PUBLIC HEALTH	HH		MATH 116 and 117
554	EXERCISE SCIENCE	116	BS	KINESIOLOGY, RECREATION, SPORT	HH		MATH 116
177	EXPLORING in CHHS	see notes		College Advising	HH	depends on future major, check with advisor	
563	FAMILY & CONSUMER SCIENCE EDUC	109	BS	APPLIED HUMAN SCIENCES	HH		N/A
559	HEALTH CARE ADM	109, 115, or higher, or 183	BS	PUBLIC HEALTH	HH	Catalog does not specify, but need to have a statistics course for major, fulfilled with MATH 183, PH 383 (prerequisite of MATH 109 or 115) or SOCL 300 (prereqs of 109, 116 or 183)	N/A
243	HEALTH INFORMATION MANAGEMENT	109 or 116	AS	PUBLIC HEALTH	HH		MATH 109 or 116
529	HEALTH INFORMATION MANAGEMENT	109 or 115, or higher	BS	PUBLIC HEALTH	HH	Catalog does not specify, but need to meet prerequisite for required PH 383, which MATH 109 or 115 or higher satisfies	
564	HEALTH SCIENCES	183	BS	PUBLIC HEALTH	HH		MATH 183
707	HOSPITALITY MGT & DIETETICS	109 or 116 or 183 (see note)	BS	APPLIED HUMAN SCIENCES	HH	109 for all but Nutrition & Dietetics Concentration, which requires 183	109 for all but Nutrition & Dietetics Concentration, which requires 183
531	INTERIOR DESIGN AND FASHION	109	BS	APPLIED HUMAN SCIENCES	HH		N/A
273	NURSING (ASN OFFICIALLY ADMITTED)	QR	ASN	NURSING	HH		3 hour QR course
586	NURSING (BSN OFFICIALLY ADMITTED)	115 or 116	BSN	NURSING	HH		MATH 115 or 116
596	NURSING (RN TO BSN)	109 or 116	BSN	NURSING	HH	any QR will work	N/A
587	PHYSICAL EDUCATION	109	BS	KINESIOLOGY, RECREATION, SPORT	HH		N/A
521	PUBLIC HEALTH	109 or 115	BS	PUBLIC HEALTH	HH		MATH 109 or 115
589	RECREATION ADMINISTRATION	109 or 183	BS	KINESIOLOGY, RECREATION, SPORT	HH		N/A
594	SOCIAL WORK	183	BSW	SOCIAL WORK	HH		MATH 183
572	SPORT MANAGEMENT	109	BS	KINESIOLOGY, RECREATION, SPORT	HH		N/A

Degrees (Undergraduate) Offered:
AA = Associate of Arts
AS = Associate of Science
ASN = Associate of Science in Nursing
BS = Bachelor of Science
BSN = Bachelor of Science in Nursing
BSW = Bachelor of Social Work

Ogden College of Science and Engineering Undergraduate Programs
Quantitative Reasoning (QR) Colonnade General Education Requirements (Math)

MAJOR Ref. #	Major Description	QR (MATH) Recommendation	DEGREE	Department/School	College	NOTES	Catalog Info
205	AGRICULTURAL TECH & MANAGEMENT	116 (see note)	AS	AGRICULTURE	SC	Ag Tech & Mgmt, and Ag Tech, Turf suggest 115 or 116	MATH 116, except Ag Tech & Mgmt, and At tech, Turf suggest 115 or 116
508	AGRICULTURE	115 or higher	BS	AGRICULTURE	SC		MATH 115 or higher, excepts Pre-Vet Medicine requires MATH 116 or higher
605	AGRICULTURE (minor required)	116	BS	AGRICULTURE	SC		N/A
518	ARCHITECTURAL SCIENCE	117	BS	ENGINEERING and APPLIED SCIENCES	SC		MATH 117
519	BIOCHEMISTRY	136	BS	OFFICE OF DEAN - SC COLL	SC		MATH 136
525	BIOLOGY	116 or higher (see note)	BS	BIOLOGY	SC		MATH 116 & 117 or MATH 118 or higher
617	BIOLOGY (minor required)	116 or higher (see note)	BS	BIOLOGY	SC		MATH 116 & 117 or MATH 118 or higher
623	CHEMISTRY	136	BS	CHEMISTRY	SC	Different for each concentration	136
534	CIVIL ENGINEERING	136	BS	ENGINEERING and APPLIED SCIENCES	SC	Additional Math Requirements	MATH 136, 137, 237, 331
555	COMPUTER INFO TECH	116	BS	ENGINEERING and APPLIED SCIENCES	SC		MATH 116 or higher
629	COMPUTER SCIENCE	136	BS	ENGINEERING and APPLIED SCIENCES	SC	Math 136 and Phil 215 are both	MATH 136 & PHIL 215
533	CONSTRUCTION MANAGEMENT	117	BS	ENGINEERING and APPLIED SCIENCES	SC		MATH 117 or higher
678	EARTH SCIENCE	117	AB	GEOGRAPHY AND GEOLOGY	SC		MATH 117
537	ELECTRICAL ENGINEERING	136	BS	ENGINEERING and APPLIED SCIENCES	SC	additional Math Requirements	MATH 136, 137, 237, 331
189	EXPLORING in Science & Engineering	116 or higher		College Advising	SC		MATH 116 or higher
576	GEOGRAPHIC INFORMATION SCIENCE	118 or 116 & 117; and 183	BS	GEOGRAPHY AND GEOLOGY	SC	Math 118 (or 116 & 117) and Math 183 required	MATH 118 or 116 & 117; and 183
675	GEOGRAPHY/ENVIRONMENTAL STUDIES	115 or 116 & 183 (see note)	BS	GEOGRAPHY AND GEOLOGY	SC	MATH 115 or 116 not an option for Karst & Water Resources concentration as MATH 136 needed	MATH 115 or 116 & 183 (except the Karst and Water Resources Concentration requires MATH 136)
577	GEOLOGY	136	BS	GEOGRAPHY AND GEOLOGY	SC		MATH 136
5006	MANUFACTURING ENGINEERING TECHNOLOGY	117 or higher	BS	ENGINEERING and APPLIED SCIENCES	SC		MATH 117 or higher
528	MATHEMATICS	136	AB	MATHEMATICS	SC	additional Math Requirements	MATH 136, 137, and 307 (or 310)
728	MATHEMATICS (minor required)	136	AB	MATHEMATICS	SC	additional Math Requirements	MATH 136, 137, and 307 (or 310)
731	MATHEMATICAL ECONOMICS	136	BS	ECONOMICS, and MATHEMATICS		joint with BU and SC Colleges	MATH 136, 137, 237, 307
543	MECHANICAL ENGINEERING	136	BS	ENGINEERING and APPLIED SCIENCES	SC	additional Math Requirements	MATH 136, 137, 237 or 331
5004	MEDICAL LABORATORY SCIENCE	116 & 117 or 118	BS	BIOLOGY	SC		MATH 116 + 117 or MATH 118
578	METEOROLOGY	136	BS	GEOGRAPHY AND GEOLOGY	SC	additional Math Requirements	MATH 136, 137, 237, and 331
730	MIDDLE GRADES MATHEMATICS	136 (see note)	BS	MATHEMATICS	SC		C or above in each: MATH 136
734	MIDDLE SCHOOL SCIENCE	117, 136, 142	BS	PHYSICS AND ASTRONOMY	SC		MATH 117, 136, 142
738	MOLECULAR BIOTECHNOLOGY	117	BS	BIOLOGY	SC		
754	PHYSICS	136 or higher	BS	PHYSICS AND ASTRONOMY	SC		MATH 136, 137, 237, 307 (or 370 for applied physics track), and 331
747	PSYCHOLOGICAL SCIENCE	183	BS	PSYCHOLOGICAL SCIENCES	SC	MATH 183 (Recommended) or other math course (excluding MATH 109)	Either (1) MATH 116 & MATH 117, or (2) MATH 118 or higher is required; MATH 183 is recommended
575	TECHNOLOGY MANAGEMENT	116	BS	ENGINEERING and APPLIED SCIENCES	SC		MATH 116

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