



WESTMINSTER COLLEGE

Fontbonne Equivalencies for ACCOUNTING MAJOR

Course #	Title of Course	Hours Required	Fontbonne Equivalencies	Approved Substitutions
Required Courses:				
<i>Prerequisites are in parenthesis</i>				
ACC 215	Principles of Financial Accounting	3	ACT 210	
ACC 216	Principles of Managerial Accounting (ACC 215)	3	ACT 220	
BUS 210	Spreadsheet Application in Business	3	CIS 110	
BUS 220	Fundamentals of Management	3	MGT 210	
BUS 250	Principles of Marketing	3	MKT 210	
BUS 327	Operations Management (MAT 114 & BUS 210)	3	MGT 350	
ECN 211	Principles of Macroeconomics (MAT 114 OR 122 OR 124)	3	ECN 210	
ECN 212	Principles of Microeconomics (MAT 114 OR HIGHER)	3	ECN 220	
FIN 318	Corporate Financial Management (ACC 215 & BUS 210)	3	FIN 310	
MAT 114	Elementary Statistics (MAT 110/111 OR ACT 23 OR HIGHER)	3	MAT 115	
MAT 122	Business Calculus* (MAT 111 OR ACT 23 OR HIGHER)	3		BSA 250
OR MAT 124	Calculus I (MAT 121 OR ACT 25 OR HIGHER)	5		MTH 151
SPE 101	Intro to Speech Communication	3	COM 101	ENG 201
OR SPE 203	Interpersonal Communication	3		COM 240
OR SPE 220	Public Relations	3	COM 102	
Total Core Business Hours		36-38 hrs.		
*MAT 122 Business Calculus is highly recommended for students planning to go to graduate school.				
Accounting Major Courses:				
ACC 307	Government and Non-Profit Accounting (ACC 216)	3	ACT 605	ABA 410 or BSA 410
ACC 308	Managerial and Cost Accounting (ACC 216)	3	ACT 340	
ACC 31	Intermediate Accounting I (ACC 216)	3	ACT 310	
ACC 319	Federal Income Tax I (ACC 216)	3	ACT 350	
ACC 320	Accounting Information Systems (ACC 216 & BUS 210)	3	ACT 420	
ACC 322	Intermediate Accounting II (ACC 312)	3	ACT 320	
ACC 418	Advanced Accounting (ACC 322)	3	ACT 330	
ACC 419	Federal Income Tax II (ACC 319)	3	ACT 555	
ACC 421	Auditing (ACC 322)	3	ACT 410	
BUS 223	Business Law	3	BSA 210	
ECN 325	Money, Banking and Financial Markets (ECN 211)	3	FIN 320	BSA 310 or ACT 430
Other Required Accounting Course Hours		33 hrs.		
TOTAL HOURS FOR MAJOR		69-71 hrs.		



WESTMINSTER COLLEGE

Fontbonne Equivalencies for MATHEMATICAL DATA SCIENCE MAJOR

Course #	Title of Course	Hours Required	Fontbonne Equivalencies	Approved Substitution
Prerequisites are in parenthesis				
Required Courses				
MAT 115	Fundamentals of Data Science	3		CIS 200
MAT 124	Calculus I (MAT 121 OR ACT 25 OR HIGHER)	5		MTH 150
MAT 214	Calculus II (MAT 124)	4	MTH 151	
MAT 215	Linear Algebra (MAT 124)	3	MTH 200	
MAT 313	Mathematical Probability and Statistics (MAT 214)	3	MTH 325	
MAT 321	Discrete Mathematics & Graph Theory (MAT 214)	3		MTH 405 OR 435 OR455
MAT 340	Statistical Computing in RStudio (MAT 115,321)	3		MTH 300
MAT 411	Data Science Seminar (MAT 340, ECN 355, PSY 270,274, BIO 212, CSA 327)	3		MTH461, OR 498+499
Mathematics elective (upper-level course)				
MAT	Upper-Level Elective	3		MTH 300, 315, 316, 405
Other Required Courses				
CSA 104	Programming Logic and Design	3	CIS 160	
CSA 321	Python Programming (CSA 104)	3		CIS 210, 161
CSA 327	Database Management Systems (CSA 104)	3	CIS 330	
One of the Following Research Methods for Business and Social Sciences Applications				
ECN 355	Research Methods for Business & Social Sciences Applications (MAT 114, BUS 210, ECN 211,212)	3	BSA 410	
PSY 270	Research Tools (PSY 112,113, MAT 114)	3		BIO 201 + 202
PSY 274	Methods in Experimental Psychology (PSY 112,113)	3	PSY 330	
BIO 212	Research Methods in Biology & Environmental Sciences (BIO 114/115,124/125 OR CHM 114/115/,124/125)	3		BIO 204
One Upper-Level Elective An advisor approved upper-level course in Biology, Chemistry, Business, Physics, Psychology, Computer Systems Analysis, Environmental Science, or Economics which has a pre-req in the discipline. (3hrs)				
TOTAL HOURS FOR MAJOR		45 hrs.		



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Fontbonne Equivalencies for MATHEMATICS MAJOR

Course #	Title of Course	Hours Required	Fontbonne Equivalent	Approved Substitution
Required Courses:				
MAT 124	Calculus I	5		MTH 150
MAT 214	Calculus II	4	MTH 151	
MAT 215	Linear Algebra	3	MTH 200	
MAT 224	Calculus III	4	MTH 250	
MAT 313	Mathematical Probability and Statistics	3	MTH 315 or 325	
MAT 331	Mathematics Seminar (<i>Must be taken no later than Junior year</i>)	3		MTH 300
MAT 422	Modern Algebra	3	MTH 430	
MAT 424	Advanced Calculus	3		MTH 480
Mathematics Electives (upper-level courses) 6 hours				
	*Any MTH U-L course not on the required list	3		
	*	3		
Other Required Courses:				
CSA 104	Programming Logic and Design	3	CIS 120	
OR CSA 304	Structured Programming	4	CIS 160	
Plus, one of the following courses:				
PHY 212	Physics II	4	PHY 220+230	
OR	An Upper-Level course in Biology, Chemistry, or Economics which has a pre req in the discipline	3		
TOTAL HOURS FOR MAJOR		40-42 hrs.		

BUSINESS ADMINISTRATION: FONTBONNE EQUIVALENCIES

Course #	Title of Course	Credit Hours	Fontbonne Equivalent	Approved Substitution
<i>Business Courses (39-41 credit hours)</i>				
ACC 215	Principles of Financial Accounting	3	ACT 210	
BUS 210	Spreadsheet Application in Business	3	CIS 110	
BUS 220	Fundamentals of Management	3	MGT 210	
BUS 221	Organizational Behavior	3	MGT 320	
BUS 223	Business Law	3	BSA 210	
BUS 250	Principles of Marketing	3	MKT 210	
BUS 450	Business Strategy	3	MGT 460	
ECN 211	Principles of Macroeconomics	3	ECN 210	
ECN 212	Principles of Microeconomics	3	ECN 220	
ECN 355	Research Methods for Business and Social Science Applications	3		BSA 410
FIN 318	Corporate Finance I	3	FIN 310	
MAT 114	Elementary Statistics	3	MTH 115	
PHL 244	Business Ethics	3		MGT 330
<i>Choose one of the following mathematics courses</i>				
MAT 122	Business Calculus	3		BSA 250
or MAT 124	Calculus I	5		MTH 150
Total Credit Hours for Core Courses		42-44		
<i>Business Administration with no concentration (12 hours)</i>				
BUS 322	Cross-Cultural Management	3		MGT 440
BUS 325	Entrepreneurship	3	MGT 360	
BUS 340	International Business	3	BSA 310	
CSA 351	Project Management	3	CIS 290	
Total Credit Hours for Major		54-56		
<i>Management Concentration (12 credit hours) Complete the three required courses and choose one elective course</i>				

BUS 322	Cross-Cultural Management	3		MGT 440
BUS 326	Human Resource Management	3	HRM 310	
CSA 351	Project Management	3	CIS 290	
<i>Choose one elective course (3 credit hours)</i>				
BUS 305	Industrial-Organizational Psychology	3	PSY 327	
BUS 327	Operations Management	3	MGT 350	
BUS 353	Non-Profit Management	3	MGT 310	
BUS 367	Hotel and Tourism Management	3		MGT 430
Total Credit Hours for Major		54-56		
Finance Concentration (12 credit hours)				
ACC 216	Principles of Managerial Accounting	3	ACT 220	
FIN 328	Corporate Finance II	3	FIN 510	
FIN 350	Investments	3	FIN 330	
FIN 351	Portfolio Management	3		FIN 335
Total Credit Hours for Major		54-56		
Marketing Concentration (12 credit hours)				
BUS 330	Advertising and Brand Promotion	3	MKT 320	
BUS 334	Consumer Behavior	3	MKT 340	
BUS 345	Digital Marketing	3	MKT 356	
BUS 3##*	Customer Relationship Management (new course)	3		MKT 330
Total Credit Hours for Major		54-56		

Major: COMPUTER SYSTEMS ANALYSIS MAJOR

Fontbonne Equivalencies

Course #	Title of Course	Hours Required	Fontbonne Equivalency	Approved Substitution
Required Courses				
CBR 220	Information Security	3	CIS 125	
CDT 101_IDL	Computing Across the Disciplines	1	CIS 100	
CSA 104	Programming Logic and Design	3	CIS 120	
CSA 250	IT Infrastructure	4	CIS 340	
CSA 304	Structured Programming	4	CIS 160	
CSA 321	Python Programming	3	CIS 176 or 200 or 216	
CSA 327	Database Systems	3	CIS 330	
CSA 351	Project Management	3	CIS 290	
CSA 390	Object-Oriented Programming	3	CIS 210	
CSA 404	Data Structures	4	CIS 161	
CSA 470	Computer Systems Analysis Capstone I	3	CIS 474	
CSA 480	Computer Systems Analysis Capstone II	3	CIS 475	
DIG 200	Media Design and Human Behavior	3		COM 208
DIG 250	Web Page Design	3	ART 202	
	TOTAL HOURS FOR MAJOR	43 hrs		

Self-Designed Major: Data Science

Course Number	Title	Hours	Fontbonne Equivalent	Approved Substitution	Fontbonne Title
MAT 114	Elementary Statistics	3	MTH 115		Introduction to Statistics
MAT 115	Fundamentals of Data Science	3		MTH 120	Discrete Mathematics
MAT 124	Calculus I	5		MTH 150	Calculus with Analytic Geometry I
MAT 214	Calculus II	4	MTH 151		Calculus with Analytic Geometry II
MAT 215	Linear Algebra	3	MTH 200		Linear Algebra
MAT 313	Mathematical Probability and Statistics	3	MTH 315		Advanced Statistics
MAT 321	Discrete Mathematics and Graph Theory	3		MTH 325	Theories and Applications of Probability
MAT 411	Data Science Seminar	3		CIS 498+499	Senior Portfolio+ Senior Synthesis
BUS 210	Spreadsheet Applications in Business	3	CIS 110		Computer Applications: Spreadsheet
CDT 101	Computing across Disciplines	1		CIS 200	Scientific Computing Languages
CSA 104	Programming Logic and Design	3	CIS 120		Overview of Computer and Information Science
CSA 304	Structured Programming	4		CIS 161	Advanced Programming Using C++
CSA 322	Information Visualization	3		CIS 435	Big Data Analysis and Visualization
CSA 327	Database Systems	3	CIS 330		Database Management Systems
MAT or CSA U-L Elective		3		CIS 455 CIS 470	Machine Learning Deep Learning
One of the following clusters or a cluster (application field) approved by the Director of the Self-Designed Program					
ECN 211 ECN 212 ECN 355	Principles of Macroeconomics Principles of Microeconomics Research Methods	3 3 3	ECN 210 ECN 220	BSA 410	Quantitative Analysis in Business
BIO 114/115 BIO 124/125 BIO 212	Bioprocesses Biodiversity Research Methods in BIO and ENV	4 4 3	BIO 134 BIO 132 BIO 204		Modeling and Experimental Design

PSY 112	Psychology as a Natural Science	3		PSY 310	Social PSY
PSY 113	Psychology as a Social Science	3	PSY 100		Introduction to PSY
PSY 270 or	Research Tools	3			
PSY 274	Methods in Experimental PSY	3	PSY 330		Research Methods for Behavioral Science

Self-Designed Major: Digital Marketing

Business Core				
Prefix	Title	Credits	Fontbonne Equivalent	Approved Substitution
ACC 215	Principles of Financial Accounting	3	ACT 210	
ACC 216	Principles of Managerial Accounting	3	ACT 220	
BUS 210	Spreadsheet Application in Business	3	CIS 110	
BUS 220	Fundamentals of Management	3	MGT 210	
BUS 223	Business Law	3	BSA 210	
BUS 250	Principles of Marketing	3	MKT 210	
BUS 327	Operations Management	3	MGT 350	
ECN 211	Principles of Macroeconomics	3	ECN 210	
ECN 212	Principles of Microeconomics	3	ECN 220	
ECN 355	Research Methods for Business and Social Science Applications	3		BSA 410; ABA 410
FIN 318	Corporate Finance I	3	FIN 310	
MAT 114	Elementary Statistics	3	MTH 115	
PHL 244	Business Ethics	3		MGT 330
BUS 340	International Business	3	BSA 310	MKT 420
MAT 122	Business Calculus	3		BSA 250
Digital Marketing Core				
DIG 340	Social Media and Marketing	3	MKT 325	
BUS 334	Consumer Behavior	3	MKT 340	
DIG 360	Search Engine Optimization	3	MKT 306	
BUS 345	Digital marketing	3		MKT 356
BUS 330	Advertising and Brand Promotion	3		MKT 406
CSA 322	Information Visualization	3		MKT 206
CSA 104	Programming Logic and Design	3		CIS 176
CSA 321	Python Programming	3		CIS 216
BUS 3**	Customer Relationship Management	3		MKT 460
BUS 398	Marketing Research (Independent)	3		MKT 410
	Total number of credits	75		

Self-Designed Minor: Management Information Systems

Course Number	Course Title	Hours	Fontbonne Equivalent	Approved Substitution
CSA 104	Programming Logic and Design	3	CIS 120	
CSA 304	Structured Programming	3	CIS 160	
CSA 404	Data Structures	3	CIS 161	
CSA 390	Object-Oriented Programming	3	CIS 210	
CSA 327	Database Systems	3	CIS 330	
CSA 470	CSA Capstone I	3	CIS 474	
CSA 480	CSA Capstone II	3	CIS 475	
	Total hours	21		

Psychology Minor

Course Number	Course Title	Hours	Fontbonne Equivalent	Approved Substitution
Required Courses				
PSY 112	Psychology as a Natural Science	3		
PSY 113	Psychology as a Social Science	3	PSY 100	
One of the Following Courses				
PSY 270	Research Tools	3		
PSY 274	Methods in Experimental Psychology	3	PSY 330	
One of the Following Courses				
PSY 310	Social Psychology	3	PSY 310	
PSY 312	Developmental Psychology	3		PSY 200
PSY 315	Psychology of Personality	3	PSY 305	
PSY 390	Abnormal Psychology	3	PSY 315	
One of the Following Courses				
PSY 290	Biological Psychology	3	PSY 445	
PSY 320	Memory and Cognition	3	PSY 335	
One of the Following Laboratory Courses				
PSY 311	Social Psychology Lab	1		
PSY 313	Developmental Psychology Lab	1		
PSY 316	Personality Lab	1		
PSY 321	Memory and Cognition Lab	1		
PSY 391	Abnormal Psychology Lab	1		
	Total hours	16		

Self-Designed Major: Management Information Systems

Required Courses				
Prefix	Title	Credits	Fontbonne Equivalent	Approved Substitution
BUS 210	Spreadsheet Applications in Business	3	CIS 110	
CSA 104	Programming Logic and Design	3	CIS 120	
CBR 220	Information Security	3	CIS 125	
CSA 304	Structured Programming	4	CIS 160	
CSA 404	Data Structures	4	CIS 161	
CSA 390	Object-Oriented Programming	3	CIS 210	
CSA 250	IT Infrastructure	4		CIS 340
CSA 351	Project Management	3	CIS 290	
CSA 327	Database Systems	3	CIS 330	
CSA 399 or 398	Internship or Independent Research	3	CIS 499	
	Total required credit hours	33		
Select a cluster of courses in one of the applied fields below				
Management				
BUS 220	Fundamentals of Management	3	MGT 210	
BUS 221	Organizational Behavior	3	MGT 320	
BUS 326	Human Resource Management	3	HRM 310	
BUS 327	Operations Management	3	MGT 350	
MAT 114	Elementary Statistics	3	MTH 115	
	Total management credit hours	15		
Cybersecurity and digital media				
CBR 110	Introduction to Cybersecurity	3		CIS 355
CBR 360	Cyber Law and Ethics	3		CIS 356
CBR 415	Information Security Policy	3		CIS 445
DIG 250	Webpage Design	3		CIS 215
DIG 350	Web Development II	3		CIS 380
	Total cybersecurity and digital media credit hours	15		
	Total number of credits	48		
The cluster courses can be replaced with an approved minor, such as Business Administration, Mathematics, Economics, or Accounting (varying number of credits)				

Self-Designed Major: Marketing

Business Core (45 credits)				
Prefix	Title	Credits	Fontbonne Equivalent	Approved Substitution
ACC 215	Principles of Financial Accounting	3	ACT 210	
ACC 216	Principles of Managerial Accounting	3	ACT 220	
BUS 210	Spreadsheet Application in Business	3	CIS 110	
BUS 220	Fundamentals of Management	3	MGT 210	
BUS 223	Business Law	3	BSA 210	
BUS 250	Principles of Marketing	3	MKT 210	
BUS 327	Operations Management	3	MGT 350	
ECN 211	Principles of Macroeconomics	3	ECN 210	
ECN 212	Principles of Microeconomics	3	ECN 220	
ECN 355	Research Methods for Business and Social Science Applications	3		BSA 410; ABA 410
FIN 318	Corporate Finance I	3	FIN 310	
MAT 114	Elementary Statistics	3	MTH 115	
PHL 244	Business Ethics	3		MGT 330
BUS 340	International Business	3	BSA 310	MKT 420
MAT 122	Business Calculus	3		BSA 250
Marketing Courses (21 credits)				
DIG 340	Social Media and Marketing	3	MKT 325	
BUS 334	Consumer Behavior	3	MKT 340	
DIG 360	Search Engine Optimization	3	MKT 306	
BUS 345	Digital marketing	3		MKT 356
BUS 330	Advertising and Brand Promotion	3	MKT 320	
BUS 3**	Customer Relationship Management	3		MKT 460
BUS 398	Marketing Research (Independent)	3		MKT 410
One of the following (3 credits)				
BUS 315	Sport Promotion and Sales Management	3		SPT 260
SPE 310	Professional and Business Communication (prerequisite: SPE 101)	3		
DIG 250	Web Design	3	ART 202	
DIG 240	Media Design and Human Behavior	3	COM 260	
	Total number of credits	69		



WESTMINSTER COLLEGE

Fontbonne Equivalencies for ONE HEALTH MAJOR

Course #	Title of Course	Hours Required	Fontbonne Equivalencies	Approved Substitution
<i>Prerequisites are in parenthesis</i>				
Required Courses: (23 hrs.)				
BIO 114/115	Bioprocesses with Lab	4	BIO 134	
BIO 124/125	Biodiversity with Lab	4	BIO 132	
CHM 114/115	General Chemistry I with Lab	4	CHM 106 General Chemistry with Lab	
CHM 124/125	General Chemistry II with Lab (CHM 114/115)	4	CHM 108 General Chemistry II with Lab	
ENV 105	Intro. to Environmental Science with Lab	4	BIO 106 Topics in Environmental Science	
MAT 114	Elementary Statistics (MAT 110/111 OR ACT 23 OR HIGHER)	3	MTH 115 Introduction to Statistics	
<i>Students are encouraged to complete the above courses in their first 3-4 semesters.</i>				
Disease Transmission & Suppression (Complete one) (3-4 hrs.)				
BIO 304	Immunology	3	BIO 322 Immunology	
BIO 303	Microbiology with Lab (BIO 114/115, 124/125)	4	BIO 250 Microbiology BIO 245 Lab	
BIO 315	Entomology with Lab (BIO 114/115, 124/125)	4		
BIO 330	Virology (BIO 301 recommended) (BIO 114/115, 124/125)	3		
Human Health (6 hrs.)				
Required:				
HES 261	Intro to Epidemiology	3	BIO 325	
Complete one:				
HES/GTS 240	Intro to Global Public Health	3		HCM 330, GS 201

HES/WGS 355	Women's Health Issues (One of the Following: PSY 112,113, NSC 108, BIO 114/115, SOC 111, WGS 210 OR REL/PHL 102)	3		NUR 410
HES 357	Community Nutrition (One of the Following: PSY 112,113, NSC 210, BIO 114/115,124/125, SOC 111, ECN 212, POL 112, PHL 101)	3		NTR 410, NTR 216
Ethical Perspectives and the Environment (3 hrs.)				
PHL 246	Environmental Ethics	3	PHL 228 Environmental Ethics	
Animals Interacting with their Environment (Complete one) (3-4 hrs.)				
BIO 205	Ecology & Field Biology with Lab (BIO 124/125)	4	BIO 236 or 271	
ENV 350	Conservation Biology (BIO 114/115, 124/125 OR ENV 105)	3	BIO 332	
The Health Impacts of Chemistry (Complete one) (3 hrs.)				
BIO 310	Environmental Toxicology (BIO 114/115, 124/125)	3		CHM 320 Environmental Chemistry
CHM 410	Medicinal Chemistry (CMH 314/315)	3		CHM 328 General, Organic, and Biological Chemistry III OR BIO 421 (ONE 421) Conservation
Capstone (1 hr.)				
BIO 400	One Health Capstone	1	BIO 497 Biology Senior Capstone	
TOTAL HOURS FOR MAJOR		41-44		



Fontbonne Equivalencies for PSYCHOLOGY MAJOR

Course #	Title of Course	Hours Required	Fontbonne Equivalencies	Approved Substitutions
<i>Prerequisites are in parenthesis</i>				
Required Courses (12 hours):				
PSY 112	Psychology as a Natural Science	3		
PSY 113	Psychology as a Social Science	3	PSY 100 Introduction to Psychology	
PSY 270	Research Tools (PSY 112,113, MAT 114)	3		PSY 320 Statistics for the Behavioral Sciences
PSY 274	Methods in Experimental Psychology (PSY 112,113)	3	PSY 330 Research Methods for the Behavioral Sciences	
Four of the Following, with AT LEAST ONE from each list (12 hours):				
<i>List One</i>				
PSY 310	Social Psychology (PSY 113)	3	PSY 310 Social Psychology	
PSY 312	Developmental Psychology (PSY 112 OR 113)	3		PSY 200 Developmental Psychology
PSY 315	Psychology of Personality (PSY 113)	3	PSY 305 Personality Psychology	
PSY 390	Abnormal Psychology (PSY 113)	3	PSY 315 Abnormal Psychology	
<i>List Two</i>				
PSY 290	Biological Psychology (PSY 112 OR BIO 114)	3	PSY 445 Biological Psychology	
PSY 320	Memory and Cognition (PSY 112 OR 113)	3	PSY 335 Cognitive Psychology	
Two of the following Laboratories (2 hrs):				
PSY 311	Social Psychology Laboratory (PSY 113 & PSY 270 OR 274)	1		

PSY 313	Developmental Laboratory (PSY 113 & PSY 270 OR 274)	1		
PSY 316	Personality Laboratory (PSY 113 & PSY 270 OR 274)	1		
PSY 321	Memory and Cognition Laboratory (PSY 112 & PSY 270 OR 274)	1		
PSY 391	Abnormal Psychology Laboratory (PSY 113 & PSY 270 OR 274)	1		
A Senior Capstone Course or Courses (3-6 hrs):				
PSY 422	Senior Seminar (PSY 112,113 & PSY 270 OR 274)	3	PSY 370 Controversial Issues in Psychology	
OR BOTH				
PSY 430	Pre-Thesis and (PSY 112,113 & PSY 270 OR 274)	3	PSY 496 Senior Research Seminar I	
PSY 431	Senior Thesis (PSY 112,113,270, 274, 430)	3	PSY 497 Senior Research Seminar II	
Three Psychology electives — 9 hrs (at least 6 hrs must be upper level) Can substitute any Fontbonne PSY course that qualifies.				
1)				
2)				
3)				
	TOTAL HOURS FOR MAJOR	38-41		