

Course Equivalency
Institute of Technology-University of Minnesota
2/28/07
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Gustavus Adolphus College

Twin Cities, U of M

Numbers in parenthesis () with a "q" are discontinued quarter system courses.

New numbers beginning Fall 1999

BIO	101 Principles of Biology	BIOL 1009	4
	102 Organismal Biology	2022	4
	201 Cell & Molecular Biology	1002	4
CHE	102 Chemistry in Context	Transfers	4
	107 Principles of Chemistry	CHEM 1021, 1022	4
	141 Organic Chemistry I	2301	4
	202 J Term	MATS <u>2001</u>	4
	246 Environmental Chemistry	Transfers	4
	251 Organic Chemistry II	CHEM 2302	4
	CHEM 141 + 251 together equals CHEM 2301, 2302 & 2311		
	255 Biochemistry	Transfers	4
	258 Inorganic Chemistry	Transfers	4
	270 Quantitative Analysis	2101, 2111	4
	360 Proteins	Transfers	4
	370 (old)	2101, 2111	4
	371 Kinetics & Thermodynamics	3501	4
	372 Quantum Chem & Dynamics	3502	4
	CHE 371 + 372 together equals CHEM 3501, 3502 & 4511		
	375 Organic Chemistry III	Transfers	4
	380 Instrumental Methods	4101,4111	4
	385 Inorganic Chemistry II	4701,4711	4
GEO	105 Unnatural Disasters	GEO 3003	4
	111 Principles of Geology	1001	4
	112 Evolution of the Earth	1002	4
	237 Global Climate Change	Transfers	4
	241 Paleontology	Transfers	4
	246 Geomorphology	4701	4
	250 Structural Geology	4501	4
	259 Earth Resources	3005	4
	271 Mineralogy	2301	4
	350 Hydrogeology	5701	4
	371 (old)	2301	4
	372 Petrology	2302	4
	374 Sedimentology/Stratigraphy	4602	4

MCS	115	The Nature of Math	MATH 1131	4
	118	Calculus w/Pre-calc 1a	Transfers	4
	119	Calculus w/Pre-calc 1b	Transfers	4
		MCS 118 + 119 together equals MATH 1155 + 1271		
	120	Pre-Calculus Math (old)	1151	4
	121	Calculus I	1271	4
	122	Calculus II	1272	4
	131	(old)	1571H	4
	132	Honors Calculus II	1572H	4
	140	Elementary Statistics	STAT 3011	4
	142	Intro Statistics	STAT 3021	4
	170	Nature of Computer Science	Transfers	4
	177	Intro Cptr Science I	CSCI 1901	4
	178	Intro Cptr Science II	CSCI 1902	4
	200	Math Problem Solving	Transfers	2
	220	Intro Ana: Th of Calculus	MATH 2283	4
	221	Linear Algebra	MATH 2142	4
	222	Multivariable Calculus	MATH 2263	4
	236	Graph Theory	CSCI 2011	4
	253	Differential Equations	MATH 2066	2
		MCS 221 + 253 together equals MATH 2243		
	256	Discrete Calc & Problem	CSCI 2011	4
	265	Theory of Computation	CSCI 4011	4
	270	Obj-Or Software Develop	CSCI 3081	4
	274	Database Systems	CSCI 4707	4
	284	Intro Computer Organization	CSCI 2021	4
	287	Organ & Th Prog Language	CSCI 5106	4
	353	(old)	Transfers	4
	355	Numerical Analysis	CSCI 2031	4
	375	Algorithms: Ana & Design	CSCI 4041	4
	378	Operating Systems	CSCI 4061	4

PHY 100	Physical World	PHYS 1001	4
102	Astronomy/Cosmology	AST 1001	4
104	Physics Sound & Music	Transfers	4
120	General Physics I	PHYS 1101 LEC	4
121	General Physics I Lab .25	1101 or 1301 Lab	1
122	General Physics I/Calc	1301 LEC	4
170	General Physics II	1102 LEC	4
171	General Physics II Lab .25	1102 or 1302 Lab	1
172	General Physics II/Calc	1302 LEC	4
200	Classical Physics I	1301 LEC	4
201	Classical Phys I Lab .125	1301 Lab	
210	FORTTRAN J Term	CSCI 1107	
220	Classical Physics II	PHYS <u>2503</u> LEC	4
221	Classical Phys II Lab .25	<u>2503</u> Lab	1
230	Applied Math Phys/Engr .5 From F'02	MATH 2243	2
230	(old) .5	MATH 2263	2
240	Classical Physics III	PHYS 1302 LEC	4
241	Classical Phys III Lab .25	1302 Lab	1
260	Modern Physics	<u>2303</u>	4
270	Electronics/Instru I	EE 2001	4
271	Electronics/Instru I Lab.25	EE 2002	1
	PHYS 270 + 271 together may also be used for PHYS <u>4051</u>		
300	Mechanics	AEM 2012	4
	PHYS 300 may also be used for PHYS <u>4001</u>		
305	Exper Modern Physics	PHYS <u>4051</u>	4
310	Electronics/Instru II .50 From F'03	Transfers	2
310	(old) .50	EE 2301	2
320	Astrophysics	AST <u>2001</u>	4
330	Nuclear Physics	Transfers	4
340	Condensed Matter Physics	PHYS 4201	4
350	Electromagnet Theory	Transfers	4
360	Optics	<u>4303</u>	4
370	Adv Math Methods Phys	Transfers	4
380	Thermal/Stat Phys .75	<u>4201</u>	3
390	Quantum Mechanics	<u>4101</u>	4

Discontinued numbers Spring 1999

BI	10		BIOL 1009 in lieu of	4
	22		Transfers	4
	31		BIOL 1002 in lieu of	4
	32		BIOL 1001 in lieu of	4
	45		EEB 3001	4
	70		BIOL 3407	4
	74		4003	4
	80		3301	4
CH	03		Transfers	4
	04		Transfers	4
	07		CHEM 1021, 1022	4
	08		1022	4
	20		Transfers	4
	41		2301	4
	42	.5	Transfers (CHEM 3305q)	2
	52		2302	4
	53	.5	2311	2
	55		BIOC 3021	4
	58		Transfers	4
	70		CHEM 2101, 2111	4
	71		3501	4
	72		3502, 4511	4
	75		Transfers	4
	80		4121	4
	85		4701, 4711	4
GE	11		GEO 1001	4
	12		1002	4
	14		1019	4
	20		Transfers	4
	35		2301	4
	41		Transfers	4
	46		4701	4
	50		4501	4
	71		2301	4
	72		2302	4
MC	03		MATH 1131	4
	07		Transfers	4
	14		Stat 3011	4
	15	BASIC .5	No equiv. not to IT	
	16	COBOL .5	Transfers	2
	17	FORTRAN .5	CSCI 1107	2
	18	LISP .5	Transfers	2
	20		MATH 1151	4
	21		MATH 1271	4

MC	22		MATH 1272	4
	24		STAT 3021	4
	25		MATH 1571H	4
	26		MATH 1572H	4
	27	prior to spring 1991	Transfers (CSCI 3102q)	4
	27	From Spring 1991 Scheme	CSCI 1901	4
	28	prior to spring 1991	CSCI 1902	4
	28	From Spring 1991	Transfers	4
	29	.5	Transfers	2
	31		Math 2283	4
	36		CSCI 2011	4
	37	.5	CSCI 2021	2
	38	C++	CSCI 1113	4
	39		CSCI 1902	4
	41		MATH 2142	4
	42		MATH 2263	4
	48		CSCI 5201	4
	53	.5	MATH 2066	2
		MATH 4242 & 2066 together equals MATH 2243.		
	55		CSCI 4011	4
	56		2011	4
	57		4041	4
	73		Transfers; no equiv.	4
	78		CSCI 4061	4
PH	12		PHYS 1001	4
	14		AST 1001	4
	16	.75	PHYS 1101	3
	17	.75	1102	3
	18		1301 LEC	4
	19		1302 LEC	4
	20	.25	1301 Lab	1
	21	.25	1302 Lab	1
	24		Transfers; no equiv.	4
	30		1301 LEC	4
	31	.125	1301 Lab	
	35		2303 LEC	4
	36	.25	2303 Lab	1
	37	J Term Course	CSCI 1107	4
	45	.5	MATH 2263	2
	50		PHYS 1302 LEC	4
	51	.25	1302 Lab	1
	55		2303	4
	58	.75	EE 2001	3
	59	.25	EE 2002	1
	63	.5	EE 2301	2
	65		PHYS 2605	4
	70	J Term Course	MATS 2001	4
	75		Transfers; no equiv.	4
	80		PHYS 4001	4

PH	85		PHYS 4002	4
	86		5041	4
	88	.75	4201	3
	95		4101	4

Discontinued Course Numbers prior to Fall 1994

CHEM	107		CHEM 1021	4
	108		1022	4
	221		2101, 2111	4
	231		2301	4
	232		2302	4
	231L	.5	Transfers (CHEM 3305q)	2
	232L	.5	2311	2
	321		Transfers; no equiv.	4
	322		Transfers; no equiv.	4

CSCI	140		No equiv. not to IT	
	150		CSCI 1107	4
	155	.5		
	B BASIC		No equiv. not to IT	
	C COBOL		Transfers; no equiv.	2
	F FORTRAN		1107	2
	L LISP		Transfers; no equiv.	2
	P PASCAL		Transfers; no equiv.	2
	S SNOBOL		Transfers; no equiv.	2
	160		Transfers (CSCI 3102q)	4
	161		1902	4
	235	.5	2021	2
	240	.5	Transfers; no equiv.	2
	260		4061	4
	265		Transfers; no equiv.	4

MATH	121		MATH 1271	4
	122		1272	4
	121 H		1571H	4
	122 H		1572H	4
	220		2066	4
	221		2142	4
	222		2263	4
	245		STAT 3021	4
	321		MATH 2066	4

MATH (220 or 321) + 221 together equals MATH 2243

PHYS	103		PHYS 1101	4
	106		1102	4
	114		1301	4
	213		1302	4
	214		2303	4