



LOUISIANA BOARD OF REGENTS

Statewide Student Transfer Guide
and Articulation System

NATURAL
SCIENCES
ARTICULATION
MATRIX

Academic Year 2004 – 2005

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General User Information

The Regents Statewide Articulation Committee on Natural Sciences, comprised of members representing each public postsecondary institution, in cooperation with faculty from each campus, has evaluated and agreed to accept each of the courses listed on the Natural Sciences Matrix, unless otherwise noted by endnote or other demarcation. This matrix has been reviewed and accepted by the Board of Regents Statewide Council of Chief Academic Officers; each Management Board (Boards of Supervisors for Louisiana Community and Technical College, Louisiana State University, Southern University and University of Louisiana); and approved and adopted by the Louisiana Board of Regents.

This information is designed to provide students and advisors with a **starting point** in the transfer process. Students are **STRONGLY URGED** to seek advisement from *both their home and transfer institutions* concerning how credit will be applied towards a degree in a given major PRIOR to taking courses.

Please note the usage of the following characters in the matrix:

- a. An **endnote beside a “crosswalk course” in column 1** (e.g. Biochemistry [1]) signifies that there is an endnote that applies to all (or most) institutions on the matrix.
- b. An **endnote beside an institution’s course** (e.g. ULL General Biology - Biol 101 [2]) generally means that the course may not be accepted as an equivalent course by one other institution.
- c. An **asterisk (*) beside an institution’s course** in the Matrix means that two or more institutions do not accept the course as an equivalent course. A student should contact the institution to which he or she intends to transfer to inquire about the potential transferability of the course and to determine whether the course will count in his or her major.
- d. A **double asterisk (**) beside a “crosswalk course” in column 1** [e.g. Microbiology (**)] signifies that courses in this row are upper division courses at some institutions and lower division courses at other institutions. Therefore, students should contact the receiving institution regarding transferability of credit.
- e. Unless otherwise noted in **parenthesis**, courses are for 3 hours credit (3cr) and labs are for 1 hour credit (1cr).

Louisiana Public Higher Education Natural Sciences Articulation Matrix

Unless otherwise noted, all courses in this Matrix transfer to all institutions for credit. A course accepted as an equivalent or as a substitute for a required course may or may not be accepted as equivalent or substitute for a course required in a specific Biological Sciences major. A student should contact the institution to which he or she intends to transfer to inquire about the potential transferability of the course and to determine whether the course will count in his or her major.

Endnotes' and Asterisks' Legend:

- a. An endnote beside a “crosswalk course” in column 1 (e.g. Biochemistry [1]) signifies that a receiving institution treats that course from all sending institutions in the same manner.
- b. An endnote beside an institution’s course generally means that the course may not be accepted as an equivalent course by one other institution.
- c. An asterisk (*) beside an institution’s course in the Matrix means that two or more institutions do not accept the course as an equivalent course. A student should contact the institution to which he or she intends to transfer to inquire about the potential transferability of the course and to determine whether the course will count in his or her major.
- d. A double asterisk (**) beside a “crosswalk course” in column 1 [e.g. Microbiology (**)] signifies that courses in this row are upper division courses at some institutions and lower division courses at other institutions. Therefore, students should contact the receiving institution regarding transferability of credit.
- e. Unless otherwise noted in parenthesis, courses are for 3 hours credit (3cr) and labs are for 1 hour credit (1cr).

Louisiana Public Higher Education Natural Sciences Articulation Matrix

Courses in this Matrix have been evaluated by institutions listed in the Matrix. UNLESS OTHERWISE NOTED, ALL COURSES in a given row of this matrix are equivalent to each other and will be accepted for credit. For a Course accepted for transfer credit, the receiving institution may require documentation that the course was taught by faculty with the appropriate qualifications, especially courses from institutions which are neither accredited nor candidates for accreditation by the Commission on Colleges of the Southern Association of Colleges and Schools (COC-SACS). All institutions listed in the Matrix are currently accredited or candidates for accreditation by COC-SACS with the exception of the following emerging community colleges: LDCC and SLCC.

CROSSWALK COURSES	BRCC	BPCC	DELGADO	LDCC	LSUE	NUNEZ	RPCC	SUSLA	SLCC
SCIENCES+									
Biological Sciences									
General Biology I	Biol 120	Blgy 101 (4cr)	Biol 141	Biol 201 (4cr)	Biol 1201	Biol 1100	Biol 1200 (4cr)	Biol 104 (4cr)	Biol 1010
General Biology Lab I	Biol 120L		Biol 143		Biol 1208	Biol 1110			Biol 1011
General Biology II	Biol 121	Blgy 102 (4cr)	Biol 142	Biol 202 (4cr)	Boty 1202 (4cr)/Zool 1502	Biol 1200	Biol 1210 (4cr)	Biol 105 (4cr)	Biol 1020
General Biology Lab II	Biol 121L		Biol 144		Zool 1509	Biol 1210			Biol 1021
Cell Biology **					Zool 2151 (4cr)			Biol 264 (4 cr)	
Cell Biology Lab **									
Comparative Anatomy			Biol 207		Zool 2152 (4cr)				
Comparative Anatomy Lab			Biol 209						
Developmental Biology **									
Developmental Biology Lab **									
Biochemistry I [1]									
Biochemistry Lab I									
Biochemistry II									
Biochemistry Lab II									
General Botany I		Blgy 201	Biol 201		Boty 1502 (4cr)				
General Botany Lab I		Blgy 201L	Biol 203						
General Botany II									
General Botany Lab II									
Field Botany/Plant Taxonomy**									
Field Botany/Plant Taxonomy Lab**									
Ecology**							Biol 2300		
Ecology Lab**									
Genetics**		Zlgy 205 (4cr)	Biol 245		Zool 2153 (4cr)	Biol 2050		Biol 232 (4cr)	
Genetics Lab**									
General Microbiology **	Biol 210 (4 cr)	Micr 206 (4cr)	Biol 210	Biol 212 (4cr)*	Micr 2051 (4 cr)	Biol 2000	Biol 2110	Biol 200 (4 cr)	Biol 2030
General Microbiology Lab **			Biol 212			Biol 2010	Biol 211L		Biol 2031
General Physiology (Animal)									
General Physiology Lab (Animal)									
Intro to Zoology		Zlgy 201		Biol 230 (4cr)*	Zool 1502				
Intro to Zoology Lab		Zlgy 201L			Zool 1509				
Vertebrate Zoology					Zool 2500 (4cr)				
Vertebrate Zoology Lab									
Chemistry									
Chemistry I	Chem 101	Chem 101	Chem 141	Chem 201 (4cr)	Chem 1201	Chem 1100	Chem 1010	Chem 132 (4cr)	Chem 1030
Chemistry Lab I	Chem 101L	Chem 101L	Chem 143			Chem 1110	Chem 101L		Chem 1031
Chemistry II	Chem 102	Chem 102	Chem 142	Chem 202 (4cr)	Chem 1202	Chem 1200	Chem 1020	Chem 133 (4cr)	Chem 1040
Chemistry Lab II	Chem 102L	Chem102L	Chem 144		Chem 1212 (2cr)	Chem 1210	Chem 102L		Chem 1041
Organic Chemistry I**			Chem 221		Chem 2261			Chem 230 (4 cr)	
Organic Chemistry Lab I**			Chem 223		Chem 2361				
Organic Chemistry II**			Chem 222		Chem 2262			Chem 231 (4 cr)	
Organic Chemistry Lab II**			Chem 224		CHEM 2362/Chem 2364 (2cr)				
Physics									
Physics I	Phys 201	Phys 201	Phys 141	Phys 201 (4cr)	Phys 2001	Phys 1100	Phys 1210 (4cr)	Phys 221 (5cr)	Phys 2070
Physics I Lab	Phys 210L	Phys 201L	Phys 143		Phys 2108	Phys 1110			Phys 2071
Physics II	Phys 202	Phys 202	Phys 142	Phys 202 (4cr)	Phys 2002	Phys 1200	Phys 1220 (4cr)	Phys 222 (5cr)	
Physics II Lab	Phys 211L	Phys 202L	Phys 144		Phys 2109	Phys 1210			

+ Students are encouraged to complete the lecture and lab sequence of natural science courses to ensure transfer of credit and/or course equivalencies to another institution.

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CROSSWALK COURSES	GRAMBLING	LSU A&M	LSUA	LSUS	LA TECH	MCNEESE (MSU)	NICHOLLS	N-WSTRN (NSU)
SCIENCES+								
Biological Sciences								
General Biology I	Biol 113	Biol 1201	Biol 1201 (4cr)	Bios 120	Bisc 130	Biol 101	Biol 155 (4cr)	Biol 1010
General Biology Lab I	Biol 115	Biol 1208		Bios 120L	Bisc 131	Biol 101L		Biol 1011
General Biology II	Biol 114	Biol 1202	Biol 1202 (4cr)	Bios 222 & 224 [3]	Bisc 132	Biol 102	Biol 156 (4cr)	Biol 1020
General Biology Lab II	Biol 116	Biol 1209		Bios 222L & 224L [3]	Bisc 133	Biol 102L		Biol 1021
Cell Biology **	Biol 308 (4cr)	Biol 3090	Biol 2080	Bios 330	Bisc 315	Biol 414	Biol 440	Biol 4000
Cell Biology Lab **				Bios 330L			Biol 441	
Comparative Anatomy			Biol 3152 (4cr)	Bios 372 (2cr)	Bisc 290 (4cr)	Biol 250 (4cr)	Biol 252 (5cr)	Zool 2060 (2cr)
Comparative Anatomy Lab				Bios 372L (2cr)				Zool 2061 (2cr)
Developmental Biology **	Biol 202 (4cr)		Biol 3154 (4cr)	Bios 375	Bisc 411	Biol 305 (4cr)	Biol 332 (4cr)	Zool 4050 (2cr)
Developmental Biology Lab **				Bios 375L				Zool 4051 (2cr)
Biochemistry I [1]	Chem 461			Bchm 410	Chem 351	Chem 431 (4cr)	Chem 435	Chem 4040
Biochemistry Lab I				Bchm 410L (2cr)	Chem 353		Chem 437	Chem 4041
Biochemistry II				Bchm 412	Chem 352	Chem 432 (4cr)	Chem 436	Chem 4050
Biochemistry Lab II				Bchm 412L (2cr)	Chem 354		Chem 438	
General Botany I				Bios 224	Bisc 216			Bot 2100 (2cr)
General Botany Lab I				Bios 224L	Bisc 217			Bot 2101
General Botany II								
General Botany Lab II								
Field Botany/Plant Taxonomy**			Biol 4041 (4cr)	Bios 371 (2cr)	Bisc 221 & 222	Biol 308 (4cr)	Biol 361 (4cr)	Bot 2140 (1cr)
Field Botany/Plant Taxonomy Lab**				Bios 371L (2cr)				Bot 2141 (2cr)
Ecology**	Biol 206 (4cr)	Biol 4253	Biol 4253 (4cr)	Bios 440	Bisc 313 [4]	Biol 410 (4cr)	Biol 404 (4cr)	Biol 4400
Ecology Lab**		Biol 4254		Bios 440L				Biol 4401
Genetics**	Biol 302 (4cr)	Biol 2153 (4cr)	Biol 3153 (4cr)	Bios 363	Bisc 310	Biol 315 (4cr)	Biol 320 (4cr)	Biol 3270
Genetics Lab**				Bios 363L				
General Microbiology **	Biol 304 (4cr)	Biol 2051 (4cr)	Biol 2051 (4cr)	Bios 320	Bisc 260 (4cr)	Biol 211 (4 cr)	Biol 203	Mbio 2060
General Microbiology Lab **				Bios 320L			Biol 204	Mbio 2061
General Physiology (Animal)	Biol 405 (4cr)	Biol 4160	Biol 3150 (4cr)	Bios 387	Bisc 320	Biol 321 (4cr)	Biol 326 (4cr)	Zool 4210
General Physiology Lab (Animal)		Biol 4161		Bios 387L	Bisc 321			Zool 4211
Intro to Zoology				Bios 222				
Intro to Zoology Lab				Bios 222L				
Vertebrate Zoology	Biol 411 (4cr)		Biol 3500 (4cr)	Bios 376		Biol 216 (4cr)		
Vertebrate Zoology Lab				Bios 376L				
Chemistry								
Chemistry I	Chem 111	Chem 1201	Chem 1201	Chem 121	Chem 100 (2cr)/101 (2cr)	Chem 101(4cr)	Chem 105	Chem 1030
Chemistry Lab I	Chem 113			Chem 121L	Chem 103			Chem 1031
Chemistry II	Chem 112	Chem 1202	Chem 1202	Chem 124	Chem 102 (2cr)	Chem 102 (4cr)	Chem 106	Chem 1040
Chemistry Lab II	Chem 114	Chem 1212 (2cr)	Chem 1212 (2cr)	Chem 124L	Chem 104		Chem 110 (2cr)	Chem 1041
Organic Chemistry I**	Chem 223	Chem 2261	Chem 2261	Chem 265	Chem 250 (2cr)/251 (2 cr)	Chem 301	Chem 221	Chem 3010
Organic Chemistry Lab I**	Chem 225		Chem 2361 (2cr)	Chem 265L	Chem 253	Chem 301L (2cr)		Chem 3011 (2cr)
Organic Chemistry II**	Chem 224	Chem 2262	Chem 2262	Chem 266	Chem 252 (2 cr)	Chem 302	Chem 222	Chem 3020
Organic Chemistry Lab II**	Chem 226	Chem 2264 (2cr)	Chem 2362 (2cr)	Chem 266L	Chem 254	Chem 302L (2cr)	Chem 226 (2cr)	Chem 3021 (2cr)
Physics								
Physics I	Phys 109	Phys 2001	Phys 2001	Phys 251	Phys 209	Phys 201 (4cr)	Phys 101	Phys 2030
Physics I Lab	Phys 111	Phys 2108	Phys 2108	Phys 251L	Phys 261		Phys 103	Phys 2031
Physics II	Phys 110	Phys 2002	Phys 2002	Phys 252	Phys 210	Phys 202 (4cr)	Phys 102	Phys 2040
Physics II Lab	Phys 112	Phys 2109	Phys 2109	Phys 252L	Phys 262		Phys 104	Phys 2041

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CROSSWALK COURSES	S-EASTRN (SLU)	SUBR	SUNO	U of L-Lafayette (ULL)	U of L-Monroe (ULM)	UNO
SCIENCES+						
Biological Sciences						
General Biology I	Gbio 151	Biol 108	Biol 124	Biol 101 [2]	Biol 120	Bios 1073
General Biology Lab I	Biol 152	Biol 109	Biol 124L (2cr)	Biol 103 [2]	Biol 121	Bios 1071
General Biology II	Gbio 153		Biol 125	Biol 102 [2]	Biol 122	Bios 1083
General Biology Lab II	Biol 154		Biol 125L (2cr)	Biol 104 [2]	Biol 123	Bios 1081
Cell Biology **	Gbio 200	Biol 402 (4cr)	Biol 324	Biol 457	Biol 220	Bios 2114 (4cr)
Cell Biology Lab **			Biol 324L	Biol 458 (2cr)		
Comparative Anatomy	Zoo 302 (4cr)	Biol 241 (4cr)	Biol 231	Biol 336 (4cr)	Biol 316 (4cr)	Bios 2954
Comparative Anatomy Lab			Biol 231L			
Developmental Biology **	Zoo 331 (4cr)	Biol 342 (4cr)	Biol 270	Biol 425		Bios 4413
Developmental Biology Lab **			Biol 270L	Biol 426		Bios 4421
Biochemistry I [1]	Chem 481	Biol 340	Biol 306	Chem 317	Chem 336	Bios 3104 (4cr)
Biochemistry Lab I	Clab 483 (2cr)	Biol 342	Biol 306L	Chem 319 (2cr)		
Biochemistry II	Chem 482	Biol 341		Chem 417	Chem 337	
Biochemistry Lab II	Clab 484 (2cr)	Biol 343				
General Botany I	Bot 205 (4cr)	Biol 209 (4cr)				
General Botany Lab I						
General Botany II						
General Botany Lab II						
Field Botany/Plant Taxonomy**	Bot 347 (4cr)		Biol 204		Bioln 440 (4cr)	Bios 4844 (4cr)
Field Botany/Plant Taxonomy Lab**			Biol 204L			
Ecology**	Gbio 395		Biol 341	Biol 360 (4cr)		
Ecology Lab**			Biol 341L			
Genetics**	Gbio 312	Biol 350 (4cr)	Biol 302	Biol 210	Biol 305	Bios 3453
Genetics Lab**	Biol 314 (2 cr)		Biol 302L		Biol 306	
General Microbiology **	Mic 205	Biol 232 (4 cr)	Biol 217	Biol 261	Biol 214	Bios 2744 (4 cr)
General Microbiology Lab **	Micl 207		Biol 217L	Biol 263 (2cr)	Biol 215	
General Physiology (Animal)	Zoo 392 (4cr)		Biol 301		Biol 414 (4cr)	
General Physiology Lab (Animal)			Biol 301L			
Intro to Zoology		Biol 201 (4 cr)	Biol 205			
Intro to Zoology Lab			Biol 205L			
Vertebrate Zoology				Biol 201 (4cr)	Biol 332 (4cr)	Bios 3944 (4cr)
Vertebrate Zoology Lab						
Chemistry						
Chemistry I	Chem 121	Chem 132	Chem 111	Chem 107	Chem 107	Chem 1017
Chemistry Lab I	Clab 123	Chem 112	Chem 111L (2cr)		Chem 109	
Chemistry II	Chem 122	Chem 133	Chem 112	Chem 108	Chem 108	Chem 1018
Chemistry Lab II	Clab 124	Chem 113	Chem 112L (2cr)	Chem 115 (2cr)	Chem 110	Chem 1028
Organic Chemistry I**	Chem 265	Chem 230	Chem 241	Chem 231	Chem 303	Chem 2217 [5]
Organic Chemistry Lab I**	Clab 267	Chem 220	Chem 241L (2cr)	Chem 233	Chem 304	
Organic Chemistry II**	Chem 266	Chem 231	Chem 242	Chem 232	Chem 305	Chem 2218
Organic Chemistry Lab II**	Clab 268	Chem 221 (2cr)	Chem 242L (2cr)	Chem 234 (2cr)	Chem 306	Chem 2026 (2 cr)
Physics						
Physics I	Phys 191	Phys 141 (4cr)	Phys 211	Phys 207	Phys 203 or 207	Phys 1031
Physics I Lab	Plab 193		Phys 211L (2cr)	Phys 215	Phys 209	Phys 1033
Physics II	Phys 192	Phys 142 (4cr)	Phys 222	Phys 208	Phys 204 or 208	Phys 1032
Physics II Lab	Plab 194		Phys 222L (2cr)	Phys 216	Phys 210	Phys 1034

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Louisiana Public Higher Education Natural Sciences Articulation Matrix

ENDNOTES

[1] At most institutions, students are required to complete the Organic Chemistry Sequence prior to enrolling in Biochemistry. Therefore, students are urged to contact the institution to which he/she intends to transfer to verify the requirements for taking Biochemistry.

[2] After completing Biol 101, 102 and the corresponding labs, 103 and 104, students are required to complete Biol 203 and its corresponding lab 204 to satisfy General Biology requirements at ULL.

[3] Students at LSUS are required to complete both Bios 222 and Bios 224 and the corresponding labs, 222L and 224L, before enrolling in any upper division courses.

[4] At most institutions, Ecology and Genetics have a lecture and a lab sequence equivalent to 4 credit hours. Students transferring from institutions whose sequence deviates from this structure are urged to contact the institution to which he/she intends to transfer.

[5] At UNO, transfer credit for CHEM 2217 will be validated only upon passing CHEM 2218.