**B.S. in BIOCHEMISTRY CHECKLIST** 

Student \_\_\_\_\_

(Revised March 2014)

Advisor\_\_\_\_\_

	SITRY	and SCIENCE COURSES (60 cr)		Planned	Taken	Grade
Riochemistr	v Core	Courses (18 cr)				
BIOC	301	Biochemistry I	3cr			
BIOC	311	Biochemistry Laboratory I	1cr			
BIOC	302	Biochemistry II	3cr			
BIOC	312	Biochemistry Laboratory II	1 cr			
BIOC	401	Lab Methods in Biology and Biotechnology	3 cr			
BIOC	481	Special Topics in Biochemistry	3 cr			
BIOC	482	Independent Research in Biochemistry	2 cr			
BIOC	480	Biochemistry Seminar I (writing intensive)	1 cr			
BIOC	490	Biochemistry Seminar I (writing intensive)	1 cr			
DIOC	770	BIOC 480 and 490 together count as one	1 01			
		writing intensive course				
Chemistry (	Ourses					
CHEM	113	Concepts in Chemistry I	4 cr			
CHEM	114	Concepts in Chemistry II	4 cr			
CHEM	231	Organic Chemistry I	4 cr			
CHEM	231	Organic Chemistry II	4 cr			
CHEM	325	Analytical Methods	4 cr			
CHEM	341	Physical Chemistry for Biological Sciences	3 cr			
Biology Cou		· · · ·	5 01			
BIOL	202	Principles of Biology II- Cell and Mol. Biol.	4 cr			
BIOL	250	Principles of Microbiology	3 cr			
BIOL	203	Principles of Biology III- Genetics and	4 cr			
DIOL	205	Development (writing intensive)	7 01			
		Development (writing intensive)				
Additional S	Science	Courses (9 cr)				
Additional S	Science	Courses (9 cr)				
			6 cr			
Three addit	ional co	Courses (9 cr) ourses chosen from any 300- 400 level BIOL or MATH 216 or MATH 225 or COSC 110	6 cr			
Three addit	ional co ourses (	ourses chosen from any 300- 400 level BIOL or MATH 216 or MATH 225 or COSC 110	6 cr			
Three addit or CHEM c (minimum t	ional co ourses ( otal of (	burses chosen from any 300- 400 level BIOL or MATH 216 or MATH 225 or COSC 110 6 cr)	6 cr			
Three addit or CHEM c (minimum t	ional co ourses ( otal of (	ourses chosen from any 300- 400 level BIOL or MATH 216 or MATH 225 or COSC 110	6 cr	Planned	Taken	Grade
Three addit or CHEM c (minimum t LIBERAL S	ional co ourses o otal of ( STUDIF	ourses chosen from any 300- 400 level BIOL or MATH 216 or MATH 225 or COSC 110 6 cr) ES REQUIREMENTS (47-48 cr)	6 cr	Planned	Taken	Grade
Three addit or CHEM c (minimum t LIBERAL S	ional co ourses o otal of ( STUDIF	burses chosen from any 300- 400 level BIOL or MATH 216 or MATH 225 or COSC 110 6 cr)	6 cr 3 cr	Planned	Taken	Grade
Three addit or CHEM c (minimum t LIBERAL S Learning SI	ional co ourses o otal of ( STUDIF	ourses chosen from any 300- 400 level BIOL or MATH 216 or MATH 225 or COSC 110 6 cr) CS REQUIREMENTS (47-48 cr) CS REQUIREMENTS (47-48 cr) Eglish Composition (6 cr) English Composition I		Planned	Taken	Grade
Three addit or CHEM c (minimum t LIBERAL S Learning Sk ENGL	ional co ourses o otal of o STUDIH cills: En 101	ourses chosen from any 300- 400 level BIOL or MATH 216 or MATH 225 or COSC 110 6 cr) CS REQUIREMENTS (47-48 cr) Inglish Composition (6 cr)	3cr	Planned	Taken	Grade
Three addit or CHEM c (minimum t LIBERAL S Learning SI ENGL ENGL	ional co ourses o otal of o STUDIH cills: En 101 202	ourses chosen from any 300- 400 level BIOL or MATH 216 or MATH 225 or COSC 110 6 cr) CS REQUIREMENTS (47-48 cr) CS REQUIREMENTS (47-48 cr) Eglish Composition (6 cr) English Composition I	3cr	Planned	Taken	Grade
Three addit or CHEM c (minimum t LIBERAL S Learning SI ENGL ENGL	ional co ourses o otal of o STUDIH cills: En 101 202	burses chosen from any 300- 400 level BIOL or MATH 216 or MATH 225 or COSC 110 6 cr) ES REQUIREMENTS (47-48 cr) In the second se	3cr	Planned	Taken	Grade
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Three addit or CHEM c (minimum t LIBERAL S Learning SI ENGL ENGL ENGL Knowledge HIST	ional co ourses o otal of o STUDIH cills: En 101 202	burses chosen from any 300- 400 level BIOL or MATH 216 or MATH 225 or COSC 110 6 cr) ES REQUIREMENTS (47-48 cr) In the second se	3cr 3cr 3cr	Planned	Taken	Grade
Three addit or CHEM c (minimum t LIBERAL S Learning SI ENGL ENGL ENGL HIST PHIL/RLST	ional co ourses o otal of o STUDIE cills: En 101 202 Areas –	Durses chosen from any 300- 400 level BIOL for MATH 216 or MATH 225 or COSC 110 6 cr) CS REQUIREMENTS (47-48 cr) CS REQUIREMENTS (47-48 cr) English Composition (6 cr) English Composition I English Composition II Humanities (9 cr)	3cr 3cr 3cr 3cr 3cr	Planned	Taken	Grade
Three addit or CHEM c (minimum t LIBERAL S Learning Sl ENGL ENGL Knowledge HIST PHIL/RLST ENGL	ional co ourses o otal of o STUDIH cills: En 101 202 Areas – 121	Durses chosen from any 300- 400 level BIOL for MATH 216 or MATH 225 or COSC 110 6 cr) CS REQUIREMENTS (47-48 cr) CS REQUIREMENTS (47-48 cr) English Composition (6 cr) English Composition I English Composition II Humanities (9 cr)	3cr 3cr 3cr 3cr 3cr	Planned	Taken	Grade
Three addit or CHEM c (minimum t LIBERAL S Learning Sl ENGL ENGL HIST PHIL/RLST ENGL	ional co ourses o otal of o STUDIH cills: En 101 202 Areas – 121	purses chosen from any 300- 400 level BIOL    purses chosen from any 300- 400 level BIOL    pr MATH 216 or MATH 225 or COSC 110    6 cr)    ES REQUIREMENTS (47-48 cr)    glish Composition (6 cr)    English Composition I    English Composition II    Humanities (9 cr)    Humanities: Literature	3cr 3cr 3cr 3cr 3cr	Planned	Taken	Grade
Three addit or CHEM c (minimum t LIBERAL S Learning Sl ENGL ENGL Knowledge HIST PHIL/RLST ENGL	ional co ourses o otal of o STUDIH cills: En 101 202 Areas – 121	purses chosen from any 300- 400 level BIOL    purses chosen from any 300- 400 level BIOL    pr MATH 216 or MATH 225 or COSC 110    6 cr)    ES REQUIREMENTS (47-48 cr)    glish Composition (6 cr)    English Composition I    English Composition II    Humanities (9 cr)    Humanities: Literature	3cr 3cr 3cr 3cr 3cr 3cr	Planned	Taken	Grade
Three addit or CHEM c (minimum t LIBERAL S Learning SI ENGL ENGL Knowledge HIST PHIL/RLST ENGL Knowledge	ional co ourses o otal of 0 STUDIE iills: En 101 202 Areas – 121 Areas –	purses chosen from any 300- 400 level BIOL    purses chosen from any 300- 400 level BIOL    pr MATH 216 or MATH 225 or COSC 110    6 cr)    ES REQUIREMENTS (47-48 cr)    glish Composition (6 cr)    English Composition I    English Composition II    Humanities (9 cr)    Humanities: Literature	3cr 3cr 3cr 3cr 3cr 3cr		Taken	Grade
Three addit or CHEM c (minimum t LIBERAL S Learning SI ENGL ENGL Knowledge HIST PHIL/RLST ENGL Knowledge	ional co ourses o otal of 0 STUDIE iills: En 101 202 Areas – 121 Areas –	ourses chosen from any 300- 400 level BIOL    or MATH 216 or MATH 225 or COSC 110    of cr)    CS REQUIREMENTS (47-48 cr)    glish Composition (6 cr)    English Composition I    English Composition II    Humanities (9 cr)    Humanities: Literature    Fine Arts (3 cr)	3cr 3cr 3cr 3cr 3cr 3cr	Planned	Taken	Grade
Three addit or CHEM c (minimum t LIBERAL S Learning SI ENGL ENGL Knowledge HIST PHIL/RLST ENGL Knowledge	ional co ourses o otal of 0 STUDIE iills: En 101 202 Areas – 121 Areas –	Durses chosen from any 300- 400 level BIOL    Durses chosen from any 300- 400 level BIOL    Dor MATH 216 or MATH 225 or COSC 110    6 cr)    ES REQUIREMENTS (47-48 cr)    English Composition (6 cr)    English Composition I    English Composition II    Humanities (9 cr)    Fine Arts (3 cr)    Dimensions of Wellness (3-4 cr)	3cr 3cr 3cr 3cr 3cr 3cr 3cr	Planned		Grade
Three addit or CHEM c (minimum t LIBERAL S Learning Sl ENGL ENGL HIST PHIL/RLST ENGL Knowledge Knowledge	ional co ourses o otal of o STUDIH cills: En 101 202 Areas – 121 Areas –	Purses chosen from any 300- 400 level BIOL    purses chosen from any 300- 400 level BIOL    pr MATH 216 or MATH 225 or COSC 110    6 cr)    ES REQUIREMENTS (47-48 cr)    Eglish Composition (6 cr)    English Composition I    English Composition II    Humanities (9 cr)    Humanities: Literature    Fine Arts (3 cr)    Dimensions of Wellness (3-4 cr)    FNDT 143; HPED 142; NURS 143 or	3cr 3cr 3cr 3cr 3cr 3cr 3cr 3cr 3cr	Planned		Grade
Three addit or CHEM c (minimum t LIBERAL S Learning Sl ENGL ENGL HIST PHIL/RLST ENGL Knowledge Knowledge	ional co ourses o otal of o STUDIH cills: En 101 202 Areas – 121 Areas – 101	Durses chosen from any 300- 400 level BIOL    Dur MATH 216 or MATH 225 or COSC 110    6 cr)    ES REQUIREMENTS (47-48 cr)    glish Composition (6 cr)    English Composition I    English Composition II    Humanities (9 cr)    Humanities: Literature    Fine Arts (3 cr)    FNDT 143; HPED 142; NURS 143 or    Intro. to Military Science & Lab	3cr 3cr 3cr 3cr 3cr 3cr 3cr 3cr 2cr			Grade
Three addit or CHEM c (minimum t LIBERAL S Learning SI ENGL ENGL HIST PHIL/RLST ENGL Knowledge Knowledge MLSC MLSC	ional co ourses o otal of o sTUDIH iills: En 101 202 Areas – 121 Areas – 101 121 Areas –	Durses chosen from any 300- 400 level BIOL    Dur MATH 216 or MATH 225 or COSC 110    6 cr)    ES REQUIREMENTS (47-48 cr)    glish Composition (6 cr)    English Composition I    English Composition II    Humanities (9 cr)    Humanities: Literature    Fine Arts (3 cr)    FNDT 143; HPED 142; NURS 143 or    Intro. to Military Science & Lab	3cr 3cr 3cr 3cr 3cr 3cr 3cr 3cr 2cr			Grade

## B.S. in BIOCHEMISTRY CHECKLIST – PAGE 2

3cr  3cr    3cr  3cr    3cr  3cr    No course prefix may be used more than once. One of these courses may fulfill    Multicultural Awareness Requirement.    Knowledge Areas - Mathematics (6 cr)    MATH  125    Calculus I  3cr    Knowledge Areas: Natural Sciences (8 cr)  1    PHYS  131  Physics I- Calculus Laboratory  1 cr    PHYS  141  Physics I- Calculus Laboratory  1 cr    PHYS  132  Physics II- Calculus laboratory  1 cr    PHYS  142  Physics II- Calculus laboratory  1 cr    Cobal & Multicultural Awareness Course (3 cr)  1 cr  1 cr    Two 'Writing Intensive' Courses (at least one in major):  -  -    -  -  -  -    FREE ELECTIVES (10-12 cr)  _  -  -    -  -  -  -  -    -  -  -  -  -    -  -  -  -  -    -  -  -  -  -    -  -<		
No course prefix may be used more than once. One of these courses may fulfill    Multicultural Awareness Requirement.    Knowledge Areas – Mathematics (6 cr)    MATH  125    Calculus I  3 cr    MATH  126    Calculus II  3 cr    PHYS  131    Physics I- Calculus  3 cr    PHYS  141    Physics I- Calculus Laboratory  1 cr    PHYS  142    Physics II- Calculus laboratory  1 cr    PHYS  142    Physics II- Calculus laboratory  1 cr    PHYS  142    Physics II- Calculus laboratory  1 cr    Calobal & Multicultural Awareness Course (3 cr)		
Multicultural Awareness Requirement.    Knowledge Areas - Mathematics (6 cr)    MATH  125    Calculus I  3 cr    MATH  126    Calculus II  3 cr    Knowledge Area: Natural Sciences (8 cr)  PHYS    PHYS  131  Physics I- Calculus Laboratory  1 cr    PHYS  141  Physics I- Calculus Laboratory  1 cr    PHYS  132  Physics II- Calculus Laboratory  1 cr    PHYS  142  Physics II- Calculus laboratory  1 cr    Global & Multicultural Awareness Course (3 cr)	ll the Liberal	Studies Global &
Knowledge Areas - Mathematics (6 cr)  3cr    MATH  125  Calculus I  3cr    MATH  126  Calculus II  3 cr    Knowledge Area: Natural Sciences (8 cr)  PHYS  131  Physics I- Calculus  3 cr    PHYS  131  Physics I- Calculus Laboratory  1 cr  PHYS  141  Physics I- Calculus Laboratory  1 cr    PHYS  142  Physics II- Calculus laboratory  1 cr  1 cr    Global & Multicultural Awareness Course (3 cr)  1 cr  1 cr    Two 'Writing Intensive' Courses (at least one in major):  1 cr    FREE ELECTIVES (10-12 cr)		
MATH  125  Calculus I  3cr    MATH  126  Calculus II  3 cr    PHY  131  Physics I- Calculus  3 cr    PHYS  141  Physics I- Calculus Laboratory  1 cr    PHYS  142  Physics II- Calculus Laboratory  1 cr    PHYS  142  Physics II- Calculus laboratory  1 cr    Global & Multicultural Awareness Course (3 cr)		
MATH  125  Calculus I  3cr    MATH  126  Calculus II  3 cr    PHYS  131  Physics I- Calculus  3 cr    PHYS  131  Physics I- Calculus Laboratory  1 cr    PHYS  132  Physics I- Calculus Laboratory  1 cr    PHYS  142  Physics II- Calculus laboratory  1 cr    Global & Multicultural Awareness Course (3 cr)		
Knowledge Area: Natural Sciences (8 cr)  Image: Sciences (8 cr)    PHYS  131  Physics I- Calculus  3 cr    PHYS  141  Physics I- Calculus Laboratory  1 cr    PHYS  132  Physics II- Calculus  3 cr    PHYS  142  Physics II- Calculus laboratory  1 cr    Global & Multicultural Awareness Course (3 cr)  Image: Courses (at least one in major):  Image: Courses (at least one in major):    Two 'Writing Intensive' Courses (at least one in major):  Image: Course course (course)  Image: Course course course (course)    FREE ELECTIVES (10-12 cr)  Image: Course		
PHYS  131  Physics I- Calculus  3 cr    PHYS  141  Physics I- Calculus Laboratory  1 cr    PHYS  132  Physics II- Calculus Laboratory  1 cr    PHYS  142  Physics II- Calculus laboratory  1 cr    Global & Multicultural Awareness Course (3 cr)		
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PHYS  131  Physics I- Calculus  3 cr    PHYS  141  Physics I- Calculus Laboratory  1 cr    PHYS  132  Physics II- Calculus Laboratory  1 cr    PHYS  142  Physics II- Calculus laboratory  1 cr    Global & Multicultural Awareness Course (3 cr)		
PHYS  132  Physics II- Calculus  3 cr    PHYS  142  Physics II- Calculus laboratory  1 cr    Global & Multicultural Awareness Course (3 cr)		
PHYS  142  Physics II- Calculus laboratory  1 cr    Global & Multicultural Awareness Course (3 cr)		
Global & Multicultural Awareness Course (3 cr)    Two 'Writing Intensive' Courses (at least one in major):    Two 'Writing Intensive' Courses (at least one in major):    FREE ELECTIVES (10-12 cr)		
Two 'Writing Intensive' Courses (at least one in major):		
Two 'Writing Intensive' Courses (at least one in major):		i
FREE ELECTIVES (10-12 cr)		
FREE ELECTIVES (10-12 cr)		
May include mathematics needed before taking required course or any other courses to give a total of 120 credits. BIOL 151 and BIOL 331 are strongly recommended for students intending to apply to medical school. BIOL 151 must be taken as a free elective; BIOL 331 may be used towards the Additional Science and Mathematics requirement.		
May include mathematics needed before taking required course or any other courses to give a total of 120 credits. BIOL 151 and BIOL 331 are strongly recommended for students intending to apply to medical school. BIOL 151 must be taken as a free elective; BIOL 331 may be used towards the Additional Science and Mathematics requirement.		
any other courses to give a total of 120 credits. BIOL 151 and BIOL 331 are strongly recommended for students intending to apply to medical school. BIOL 151 must be taken as a free elective; BIOL 331 may be used towards the Additional Science and Mathematics requirement.		
any other courses to give a total of 120 credits. BIOL 151 and BIOL 331 are strongly recommended for students intending to apply to medical school. BIOL 151 must be taken as a free elective; BIOL 331 may be used towards the Additional Science and Mathematics requirement.		
331 are strongly recommended for students intending to apply to    medical school. BIOL 151 must be taken as a free elective; BIOL    331 may be used towards the Additional Science and Mathematics    requirement.		
medical school. BIOL 151 must be taken as a free elective; BIOL 331 may be used towards the Additional Science and Mathematics requirement.		
331 may be used towards the Additional Science and Mathematics requirement.		
requirement.		
COMMENTS:		