BIOLOGY, TESTAMUR MAJOR (T053)

Western Sydney University Major Code: T053

Previous Code: MT3042

Available to students in other Western Sydney University programs? No

This testamur major is available as an elective major for Bachelor of Medical Science students only.

Biology is underpinned by cells, the fundamental units necessary for organisms to grow, reproduce and interact with each other and the environment. Cells are also the basis of emerging computer models and bio-technology innovations. Biologists integrate principles from many disciplines, including chemistry, bio-physics, genetics, biochemistry, physiology and bioinformatics, for a more complete understanding of animal, plant and microbial cell function. Understanding these processes and the principles that govern the organization and function of cells are a necessary framework for creating the next advances in developmental biology and disease mitigation. At WSU, the strong emphasis on hands-on experience gives biology graduates an excellent foundation for careers in: teaching, academia, research, biotechnology, industry, law and administration. The flexibility of the major also enables students to combine their interest with other disciplines including ecology, environment, zoology and agriculture and environmental health ..

Location

Looution			BIO2 3012	Conservation Biology	10	
Campus	Mode	Advice	Select two elec	tives	20	
Campbelltown Campus Internal		Dr Ryan McQuinn		Credit Points	40	
		(R.Mcquinn@westernsy	dney.edu.au)	Total Credit Points	240	
Hawkesbury Campus	Internal	Dr Ryan McQuinn (R.Mcquinn@westernsy	^{dn} Bæchelør of	Bachelor of Science (Pathway to Teaching Primary/		
Parramatta Campus - Victoria Road	Internal	Dr Ryan McQuinn	Secondary)		-	

Recommended Sequence

Select the link for your program below to see details of the major

Bachelor of Science

Qualification for the award of Bachelor of Science with a major in Biology requires the successful completion of 240 credit points as per the recommended sequence below.

Full-Time

Course	Title	Credit Points	
Year 1			
Autumn session			
NATS 1019	Scientific Literacy	10	
BIOS 1001	Biodiversity	10	
CHEM 1008	Introductory Chemistry	10	
Select one elective		10	
	Credit Points	40	
Spring session			
CHEM 1005	Essential Chemistry 2	10	
BIOS 1012	Cell Biology	10	
Select one of the fol	Select one of the following:		
MATH 1026	Quantitative Thinking		

ey.euu.au)	Total Credit Points	240
ey.edu.au)	Credit Points	40
Select two electives		20
BIOS 3012	Conservation Biology	10
BIOS 3034	Molecular Biotechnology	10
Spring session		
	Credit Points	40
Select two electives		20
BIOS 3033	Applied Bioinformatics	10
BIOS 3032	Plant Science	10
Autumn session		
Year 3		
	Credit Points	40
Select one elective		10
NATS 3045	Work Internship for Science Professionals	
NATS 3044	Complex Case Studies in Science	
Select one of the following:		10
BIOS 2006	Comparative Physiology	10
BIOS 3027	Molecular Biology of the Cell	10
Spring session	Creat Follis	40
Select one elective	Credit Points	10 40
BIOS 2018	Genetics	10
BIOS 2042	Biochemistry	10
BIOS 2022	Microbiology 1	10
Autumn session		
Year 2		
	Credit Points	40
Select one elective		10
MATH 1014	Mathematics 1A	

(R.Mcquinn@westernsydney.edu.au) Qualification for the Bachelor of Science (Pathway to Teaching Primary/Secondary) with a major in Biology requires the successful completion of 240 credit points as per the recommended sequence for the Bachelor of Science with a major in Biology, given above.

In addition, all students must complete the mandatory 40 credit point minor in Education Studies:

No results found.

Students must meet this requirement by choosing the subjects from the Education Studies minor as electives within their Bachelor of Science program.

Bachelor of Advanced Science

Qualification for the award of Bachelor of Advanced Science with a major in Biology requires the successful completion of 240 credit points as per the recommended sequence below.

Full-Time		
Course	Title	Credit
		Points
Year 1		
Autumn session		
NATS 1019	Scientific Literacy	10
BIOS 1001	Biodiversity	10
CHEM 1008	Introductory Chemistry	10

Select one elective		10
	Credit Points	40
Spring session		
CHEM 1005	Essential Chemistry 2	10
BIOS 1012	Cell Biology	10
Select one of the f	ollowing:	10
MATH 1026	Quantitative Thinking	
MATH 1014	Mathematics 1A	
Select one elective	2	10
	Credit Points	40
Year 2		
Autumn session		
BIOS 2022	Microbiology 1	10
BIOS 2042	Biochemistry	10
BIOS 2018	Genetics	10
NATS 2001	Advanced Science Project A	10
	Credit Points	40
Spring session		
BIOS 3027	Molecular Biology of the Cell	10
NATS 2002	Advanced Science Project B	10
BIOS 2006	Comparative Physiology	10
Select one of the f	ollowing:	10
NATS 3044	Complex Case Studies in Science	
NATS 3045	Work Internship for Science Professionals	
	Credit Points	40
Year 3		
Autumn session		
BIOS 3032	Plant Science	10
NATS 3043	Advanced Science Research Project C	10
BIOS 3033	Applied Bioinformatics	10
Select one elective	2	10
	Credit Points	40
Spring session		
NATS 3043	Advanced Science Research Project C	10
BIOS 3034	Molecular Biotechnology	10
BIOS 3012	Conservation Biology	10
Select one elective	•••	10
	Credit Points	40
	Total Credit Points	240

Diploma in Science/Bachelor of Science

Qualification for this award requires the successful completion of 250 credit points which include the subjects listed in the recommended sequence below.

Full-time

Course	Title	Credit Points
Year 1		
Year 1: College Sul	ojects	
Standard 3 term ye	ar	
Preparatory Subject	et:	
CHEM 0001	Chemistry (WSTC Prep)	10
And		
Eight University Le	vel Subjects:	
BIOS 1003	Biodiversity (WSTC)	10
BIOS 1014	Cell Biology (WSTC)	10

Spring session	Credit Points	40
Select two electives		20
BIOS 3033	Applied Bioinformatics	10
BIOS 3032	Plant Science	10
Autumn session		
Year 3	Great Follits	40
	Credit Points	40
Select one elective	Work Internship for Science Professionals	10
NATS 3044 NATS 3045	Complex Case Studies in Science	
Select one of the foll NATS 3044	5	10
BIOS 2006	Comparative Physiology	10
BIOS 3027	Molecular Biology of the Cell	10
Spring session	Malaaulas Dialama (de 0.4	10
	Credit Points	40
Select one elective		10
BIOS 2018	Genetics	10
BIOS 2042	Biochemistry	10
BIOS 2022	Microbiology 1	10
Autumn session		
Year 2		
	Credit Points	90
AGEN 1002	Water Quality Assessment and Management (WSTC)	
	(WSTC)	
BIOS 1034	Management of Aquatic Environments	
PROC 1003	(WSTC) Food Science 1 (WSTC)	
ENVL 1003	Environmental Issues and Solutions	
NATS 1021	Concepts in Human Physiology (WSTC)	
NATS 1002	Concepts in Human Anatomy (WSTC)	
testamur major chos		
And Select one subject fr	rom the following (depending on the	1(
NATS 1020	Scientific Literacy (WSTC)	1(
MATH 1027	Quantitative Thinking (WSTC)	1(
BIOS 1023	Introduction to Human Biology (WSTC)	1(
CHEM 1009	Introductory Chemistry (WSTC)	1(
CHEM 1006	Essential Chemistry 2 (WSTC)	10
	Ferential Chemistry 2 (MOTO)	14

Related Programs

Bachelor of Advanced Science (3757) (https://

hbook.westernsydney.edu.au/archives/2021-2022/programs/bacheloradvanced-science/)

Bachelor of Medical Science (3755) (https://

hbook.westernsydney.edu.au/archives/2021-2022/programs/bachelormedical-science/)

Bachelor of Science (3754) (https://hbook.westernsydney.edu.au/ archives/2021-2022/programs/bachelor-science/) Bachelor of Science (Pathway to Teaching Primary/Secondary) (3756) (https://hbook.westernsydney.edu.au/archives/2021-2022/programs/ bachelor-science-pathway-teaching-primary-secondary/)

Bachelor of Science/Bachelor of Arts (3763) (https://

hbook.westernsydney.edu.au/archives/2021-2022/programs/bachelor-science-bachelor-arts/)

Bachelor of Science/Bachelor of Business (4748) (https:// hbook.westernsydney.edu.au/archives/2021-2022/programs/bachelorscience-bachelor-business/)

Bachelor of Science/Bachelor of International Studies (3764) (https:// hbook.westernsydney.edu.au/archives/2021-2022/programs/bachelorscience-bachelor-international-studies/)

Bachelor of Science/Bachelor of Laws (2743) (https://

hbook.westernsydney.edu.au/archives/2021-2022/programs/bachelor-science-bachelor-laws/)

Diploma in Science/Bachelor of Medical Science (6042) (https:// hbook.westernsydney.edu.au/archives/2021-2022/programs/diplomascience-bachelor-medical-science/)

Diploma in Science/Bachelor of Science (6043) (https://

hbook.westernsydney.edu.au/archives/2021-2022/programs/diplomascience-bachelor-science/)