

# BIOMEDICAL SCIENCE, TESTAMUR MAJOR (T086)

Western Sydney University Major Code: T086

Previous code: MT3030.1

Available to students in other Western Sydney University programs?  
No

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

Biomedical science is a broad field that aims to understand the biology that underpins human health and disease. The coursework in this major will give you an integrated foundation in physiology and anatomy, along with biochemistry, cell biology and genetics. It will equip you with knowledge from which you can embark on unlimited career choices from research laboratories to hospital pathology to biomedical engineering, medical technology, teaching and beyond. The degree also allows for enrolment in minors or flexible subjects, so students can design their own learning journey. All students must complete 60 credit points of study at Level 3 to meet program requirements. Students will need to select at least 10 credit points of elective study at Level 3 to meet this requirement.

## Location

Campus	Mode	Advice
Campbelltown Campus	Internal	Dr Manisha Dayal (m.dayal@westernsydney.edu.au)
Parramatta Campus - Victoria Road	Internal	Dr Manisha Dayal (m.dayal@westernsydney.edu.au)

## Recommended Sequence

All students must complete 60 credit points of study at Level 3 to meet course requirements. Students will need to select at least 10 credit points of elective study at Level 3 to meet this requirement.

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

## Bachelor of Medical Science

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

Course	Title	Credit Points
<b>Year 1</b>		
<b>Autumn session</b>		
NATS 1019	Scientific Literacy	10
CHEM 1008	Introductory Chemistry	10
NATS 1009	Human Anatomy and Physiology 1	10
Select one of the following:		10
MATH 1014	Mathematics 1A	
MATH 1026	Quantitative Thinking	
<b>Credit Points</b>		<b>40</b>
<b>Spring session</b>		
BIOS 1012	Cell Biology	10
NATS 1010	Human Anatomy and Physiology 2	10
CHEM 1012	Essential Chemistry	10
Select one elective		10
<b>Credit Points</b>		<b>40</b>

## Year 2

### Autumn session

BIOS 2042	Biochemistry	10
BIOS 2018	Genetics	10
NATS 2033	Cell Form and Function	10
Select one elective		10
<b>Credit Points</b>		<b>40</b>

### Spring session

BIOS 3027	Molecular Biology of the Cell	10
BIOS 2021	Metabolism	10
NATS 3044	Complex Case Studies in Science	10
Select one elective		10
<b>Credit Points</b>		<b>40</b>

## Year 3

### Autumn session

NATS 3040	Topics in Medical Science	10
BIOS 3014	Genes, Genomics and Human Health	10
Select two electives		20
<b>Credit Points</b>		<b>40</b>

### Spring session

NATS 3034	Molecular Medicine	10
Select three electives		30
<b>Credit Points</b>		<b>40</b>
<b>Total Credit Points</b>		<b>240</b>

## Bachelor of Advanced Medical Science

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

Course	Title	Credit Points
<b>Year 1</b>		
<b>Autumn session</b>		
NATS 1019	Scientific Literacy	10
CHEM 1008	Introductory Chemistry	10
NATS 1009	Human Anatomy and Physiology 1	10
Select one of the following		10
MATH 1014	Mathematics 1A	
MATH 1026	Quantitative Thinking	
<b>Credit Points</b>		<b>40</b>
<b>Spring session</b>		
BIOS 1012	Cell Biology	10
NATS 1010	Human Anatomy and Physiology 2	10
CHEM 1012	Essential Chemistry	10
Select one elective		10
<b>Credit Points</b>		<b>40</b>
<b>Year 2</b>		
<b>Autumn session</b>		
BIOS 2042	Biochemistry	10
BIOS 2018	Genetics	10
NATS 2033	Cell Form and Function	10
NATS 2001	Advanced Science Project A	10
<b>Credit Points</b>		<b>40</b>
<b>Spring session</b>		
BIOS 3027	Molecular Biology of the Cell	10
NATS 2002	Advanced Science Project B	10

BIOS 2021	Metabolism	10
NATS 3044	Complex Case Studies in Science	10
<b>Credit Points</b>		<b>40</b>
<b>Year 3</b>		
<b>Autumn session</b>		
NATS 3040	Topics in Medical Science	10
BIOS 3014	Genes, Genomics and Human Health	10
NATS 3043	Advanced Science Research Project C	10
Select one elective		10
<b>Credit Points</b>		<b>40</b>
<b>Spring session</b>		
NATS 3034	Molecular Medicine	10
Select three electives		30
<b>Credit Points</b>		<b>40</b>
<b>Total Credit Points</b>		<b>240</b>

## Diploma in Science/Bachelor of Medical Science

Qualification for the award of Diploma in Science/Bachelor of Medical Science with a major in Biomedical Science requires the successful completion of 250 credit points as per the recommended sequence below.

Course	Title	Credit Points
<b>Year 1</b>		
<b>College subjects</b>		
Standard 3-term year		
<b>Preparatory subject</b>		
CHEM 0001	Chemistry (WSTC Prep)	10
<b>And eight university level subjects as follows</b>		
BIOS 1014	Cell Biology (WSTC)	10
CHEM 1013	Essential Chemistry (WSTC)	10
NATS 1020	Scientific Literacy (WSTC)	10
MATH 1027	Quantitative Thinking (WSTC)	10
CHEM 1009	Introductory Chemistry (WSTC)	10
NATS 1009	Human Anatomy and Physiology 1	10
NATS 1010	Human Anatomy and Physiology 2	10
<b>Credit Points</b>		<b>80</b>
<b>Year 2</b>		
<b>Autumn session</b>		
BIOS 2042	Biochemistry	10
BIOS 2018	Genetics	10
NATS 2033	Cell Form and Function	10
Select one elective		10
<b>Credit Points</b>		<b>40</b>
<b>Spring session</b>		
BIOS 3027	Molecular Biology of the Cell	10
BIOS 2021	Metabolism	10
NATS 3044	Complex Case Studies in Science	10
Select one elective		10
<b>Credit Points</b>		<b>40</b>
<b>Year 3</b>		
<b>Autumn session</b>		
NATS 3040	Topics in Medical Science	10
BIOS 3014	Genes, Genomics and Human Health	10

Select two electives		20
<b>Credit Points</b>		<b>40</b>
<b>Spring session</b>		
NATS 3034	Molecular Medicine	10
Select three electives		30
<b>Credit Points</b>		<b>40</b>
<b>Total Credit Points</b>		<b>240</b>

## Related Programs

Bachelor of Advanced Medical Science (3758) (<https://hbook.westernsydney.edu.au/archives/2021-2022/programs/bachelor-advanced-medical-science/>)

Bachelor of Medical Science (3755) (<https://hbook.westernsydney.edu.au/archives/2021-2022/programs/bachelor-medical-science/>)

Bachelor of Science (3754) (<https://hbook.westernsydney.edu.au/archives/2021-2022/programs/bachelor-science/>)

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

Diploma in Science/Bachelor of Science (6043) (<https://hbook.westernsydney.edu.au/archives/2021-2022/programs/diploma-science-bachelor-science/>)