

The Faculty of Science prides itself in its vibrant, dynamic and diverse scientific community of scholars who are passionate about enhancing the learning experience of students, enhancing the research profile of the Faculty and enhancing the academic, social and economic impact of the Faculty's teaching and research programmes.

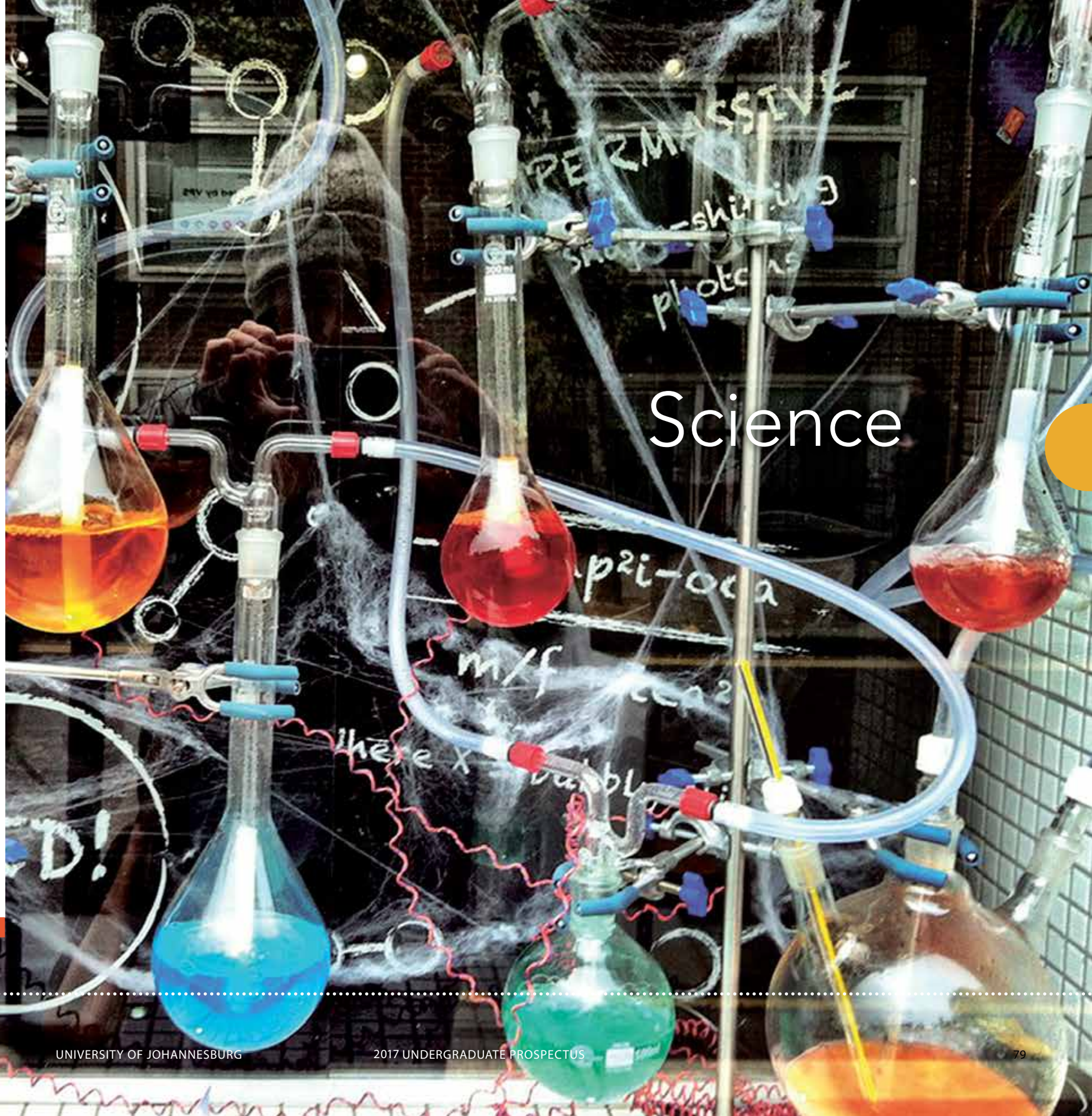
Innovative education, internationally competitive research, as well as socially aware community development, are integrated into a dynamic synergy. We provide outstanding service to our students in respect of teaching and learning programmes, state-of-the-art facilities, in-service training and an environment that is conducive to life-long learning. Four year programmes are offered as alternative access routes to students who require them. Academic support and mentorship programmes are also provided to students who need additional guidance and assistance. Our students are in great demand in the business sector and contributes significantly to the relevant industries.

The Faculty is an active player in a wider network of national and international partnerships and collaborations. Postgraduate associations with the Erasmus Mundus programme of the Netherlands and the University of Western Brittany (UBO) in France. With regard to undergraduate programmes, we are proud that UJ holds accreditation from the British Computer Society for our BSc degree programme in Information Technology.

Our partnerships with prestigious institutions are testimony to the high esteem that our staff, students and programmes enjoy in the national and international community. Each year, several staff members and students receive national and international acclaim for research and other academic achievements on Postgraduate level. The Faculty is particularly proud that it has unique state-of-the-art analytical research facilities, e.g. Spectrum, which house multi-user analytical instrumentation.

It is evident from all of the above that the Faculty of Science is fully committed to realising all of its ideals.

# Science



PROGRAMME	Qualification Code	Minimum APS	English	Mathematics	CAREER	CAMPUS
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### DEGREE PROGRAMMES

#### Bachelors of Science in Information Technology (3 years)

PROGRAMME	Qualification Code	Minimum APS	English	Mathematics	CAREER	CAMPUS
<b>INFORMATION TECHNOLOGY</b>	<b>B2101Q</b>	30	5 (60%+)	6 (70%+)	Systems Analyst, Network Manager, Programmer, Web Developer, Web Master, Database Administrator, Software Engineer, Computer Graphics Designer, Information Technology Manager, Researcher	APK
<b>COMPUTER SCIENCE AND INFORMATICS</b>	<b>B2102Q</b>	30	5 (60%+)	6 (70%+)	Systems Analyst, Network Manager, Programmer, Web Developer, Web Master, Database Administrator, Software Engineer, Computer Graphics Designer, Information Technology Manager, Researcher	APK

All minimum entrance requirements for the Faculty of Science are subject to change. Please check the UJ website – [www.uj.ac.za/Apply](http://www.uj.ac.za/Apply)

*We are proud to be the first University in Africa to have received accreditation from the British Computer Society for our BSc degree programme in Information Technology.*

*Disclaimer: In order to be considered for selection for a programme, an applicant is required to comply with the programme's minimum admission criteria in respect of the total APS and subjects. Meeting the Faculty's minimum requirements for a particular programme does not necessarily guarantee admission to that programme as specific selection criteria may be applied.*

PROGRAMME	Qualification Code	Minimum APS	English	Mathematics *	Physical Science **	Life Science	CAREER	CAMPUS
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#### Bachelors of Science in Life and Environmental Sciences (3 years)

PROGRAMME	Qualification Code	Minimum APS	English	Mathematics *	Physical Science **	Life Science	CAREER	CAMPUS
<b>BIOCHEMISTRY AND BOTANY</b>	<b>B2L10Q</b>	30	5 (60%+)	5 (60%+) 6 (70%+)*	4 (50%+) 5 (60%+)**	4 (50%+)	Analyst, Technologist or Researcher at Sasol, Eskom, Pharmaceutical Companies, Mining Companies or in Health Industry	APK
<b>BOTANY AND CHEMISTRY</b>	<b>B2L11Q</b>	30	5 (60%+)	6 (70%+)	4 (50%+) 5 (60%+)**	4 (50%+)	Biologist, Botanist, Ecologist, Nature Conservation Scientist, Forensic Scientist	APK
<b>BOTANY AND ZOOLOGY</b>	<b>B2L12Q</b>	30	5 (60%+)	5 (60%+) 6 (70%+)*	4 (50%+) 5 (60%+)**	4 (50%+)	Biologist, Nature Conservationist, Environmentalist, Ethno-Botanist, Ecologist, Entomologist, Pathologist, Parasitologist, Geneticist, Food Technologist, Zoologist	APK
<b>ZOOLOGY AND BIOCHEMISTRY</b>	<b>B2L13Q</b>	30	5 (60%+)	5 (60%+) 6 (70%+)*	4 (50%+) 5 (60%+)**	4 (50%+)	Zoologist, Biochemist, Nature Conservationist, Environmentalist, Ecologist, Entomologist, Pathologist, Geneticist, Food Technologist	APK
<b>ZOOLOGY AND CHEMISTRY</b>	<b>B2L14Q</b>	30	5 (60%+)	6 (70%+)	4 (50%+) 5 (60%+)**	4 (50%+)	Zoologist, Chemical Technologist and Researcher	APK
<b>ZOOLOGY AND ENVIRONMENTAL MANAGEMENT</b>	<b>B2L15Q</b>	30	5 (60%+)	5 (60%+)	4 (50%+)**	4 (50%+)	Geo-Zoologist, Population Geneticist, Environmental Ecologist and Specialist	APK
<b>ZOOLOGY AND GEOGRAPHY</b>	<b>B2L16Q</b>	30	5 (60%+)	5 (60%+) 6 (70%+)*	4 (50%+) 5 (60%+)**	4 (50%+)	Geo-Zoologist, Population Geneticist, Environmental Ecologist and Specialist	APK
<b>ZOOLOGY AND PHYSIOLOGY</b>	<b>B2L17Q</b>	30	5 (60%+)	5 (60%+) 6 (70%+)*	4 (50%+) 5 (60%+)**	4 (50%+)	Zoologist, Forensic Pathologist, Geneticist, Parasitologist	APK
<b>PHYSIOLOGY AND BIOCHEMISTRY</b>	<b>B2L18Q</b>	30	5 (60%+)	5 (60%+) 6 (70%+)*	4 (50%+) 5 (60%+)**	4 (50%+)	Biochemist, Researcher, Forensic Analyst, Biotechnologist	APK

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PROGRAMME	Qualification Code	Minimum APS	English	Mathematics *	Physical Science **	Life Science	CAREER	CAMPUS
PHYSIOLOGY AND PSYCHOLOGY	B2L19Q	30	5 (60%+)	5 (60%+) 6 (70%+)*	4 (50%+) 5 (60%+)**	4 (50%+)	Psychologist, Forensic Pathologist, Researcher	APK
GEOGRAPHY AND ENVIRONMENTAL MANAGEMENT	B2L20Q	30	5 (60%+)	5 (60%+)	4 (50%+)**	4 (50%+)	Location Analyst, Town Planner, Geo-Information Specialist, Environmental Rehabilitation Manager, Geomorphologist	APK
GEOLOGY AND ENVIRONMENTAL MANAGEMENT	B2L21Q	30	5 (60%+)	5 (60%+)	4 (50%+)**	4 (50%+)	Geographer, Geologist, Mineralogist, Regional Planner, Site Analyst, GIS Specialist	APK
GEOLOGY AND GEOGRAPHY	B2L22Q	30	5 (60%+)	5 (60%+)	4 (50%+) 5 (60%+)**	4 (50%+)	Geographer, Geologist, Mineralogist, Regional Planner, Site Analyst, Geographical Information Specialist	APK
SPORT SCIENCE	B2L23Q	30	5 (60%+)	5 (60%+)	4 (50%+) 5 (60%+)**	4 (50%+)	Teaching, Training Specialist, Sports Scientist Researcher	APK

\* A minimum rating of 6 for Mathematics if Mathematics 1A is included in the programme  
 A minimum rating of 5 for Mathematics if Mathematics 1C is included in the programme  
 \*\* A minimum rating of 5 for Physical Science if Chemistry 1A and/or Physics 1A is included in the programme  
 A minimum rating of 4 for Physical Science if Chemistry 1C and/or Physics G1 and/or Biology are included in the programme

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PROGRAMME	Qualification Code	Minimum APS	English	Mathematics	Physical Science **	CAREER	CAMPUS
<b>Bachelor of Science in Mathematical Sciences (3 years)</b>							
APPLIED MATHEMATICS AND COMPUTER SCIENCE	B2M40Q	31	5 (60%+)	6 (70%+)	4 (50%+) 5 (60%+)**	Computer Programmer, Systems Analyst, Mathematical Modulator	APK
APPLIED MATHEMATICS AND MATHEMATICAL STATISTICS	B2M41Q	31	5 (60%+)	6 (70%+)	4 (50%+) 5 (60%+)**	Mathematician, Data Compiler, Data Interpreter, Biometrician	APK
APPLIED MATHEMATICS AND MATHEMATICS	B2M42Q	31	5 (60%+)	6 (70%+)	4 (50%+) 5 (60%+)**	Mathematical Modulator, Mathematical Adviser	APK
COMPUTATIONAL SCIENCE	B2M43Q	33	5 (60%+)	7 (80%+)	5 (60%+)**	Software Specialist in high-tech industry, Designer of medical monitors	APK
MATHEMATICAL STATISTICS AND COMPUTER SCIENCE	B2M44Q	31	5 (60%+)	6 (70%+)	4 (50%+)**	Computer Programmer, System Analyst, Data Compiler and Analyst	APK
MATHEMATICS AND COMPUTER SCIENCE	B2M45Q	31	5 (60%+)	6 (70%+)	4 (50%+)**	Computer Programmer, Systems Analyst, Mathematical Adviser	APK
MATHEMATICS AND INFORMATICS	B2M46Q	31	5 (60%+)	6 (70%+)	4 (50%+)**	Computer Programmer, Systems Analyst	APK
MATHEMATICS AND MATHEMATICAL STATISTICS	B2M47Q	31	5 (60%+)	6 (70%+)	4 (50%+)**	Financial Analyst, Economist	APK
MATHEMATICS AND PSYCHOLOGY	B2M48Q	31	5 (60%+)	6 (70%+)	4 (50%+)**	Mathematician, Teacher, Researcher, Psychologist	APK
MATHEMATICS AND MATHEMATICAL STATISTICS (WITH FINANCIAL ORIENTATION)	B2M49Q	33	5 (60%+)	6 (70%+)	4 (50%+)**	Mathematician, Data Interpreter, Research Statistician, Mathematical Adviser	APK

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PROGRAMME	Qualification Code	Minimum APS	English	Mathematics	Physical Science**	CAREER	CAMPUS
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<b>MATHEMATICAL STATISTICS AND ECONOMICS (WITH FINANCIAL ORIENTATION)</b>	<b>B2M50Q</b>	33	5 (60%+)	6 (70%+)	4 (50%+)**	Econometrist, Investment Economist, Biometricist, Economic Journalist	APK
<b>MATHEMATICS AND ECONOMICS (WITH FINANCIAL ORIENTATION)</b>	<b>B2M51Q</b>	33	5 (60%+)	6 (70%+)	4 (50%+)**	Econometrist, Investment Economist, Consultant	APK

\*\* A minimum rating of 5 for Physical Science if Chemistry 1A and/or Physics 1A is included in the programme  
A minimum rating of 4 for Physical Science if Chemistry 1C and/or Physics G1 and/or Biology are included in the programme

PROGRAMME	Qualification Code	Minimum APS	English	Mathematics	Physical Science**	Life Science ■	CAREER	CAMPUS
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#### Bachelor of Science in Physical Sciences (3 years)

<b>BIOCHEMISTRY AND CHEMISTRY</b>	<b>B2P70Q</b>	31	5 (60%+)	6 (70%+)	5 (60%+)**	■ 4 (50%+)	Scientist in the field of food and water, biomedical, biotechnological and agricultural sectors	APK
<b>CHEMISTRY AND MATHEMATICS</b>	<b>B2P71Q</b>	31	5 (60%+)	6 (70%+)	5 (60%+)**	-	Chemistry, Researcher, Technologist, Problem Solver	APK
<b>CHEMISTRY AND PHYSICS</b>	<b>B2P72Q</b>	31	5 (60%+)	6 (70%+)	5 (60%+)**	-	Physicist, Researcher, Chemistry Technologist, Forensic Researcher	APK
<b>GEOLOGY AND APPLIED GEOLOGY</b>	<b>B2P73Q</b>	31	5 (60%+)	5 (60%+)/ 6 (70%+)*	4 (50%+)/ 5 (60%+)**	-	Geographer, Geologist, Mineralogist, Regional Planner, Site Analyst, Geographical Information Specialist	APK
<b>GEOLOGY AND CHEMISTRY</b>	<b>B2P74Q</b>	31	5 (60%+)	6 (70%+)	5 (60%+)*	■ 4 (50%+)	Geochemist, Geologist, Forensic Scientist, Exploration Expert	APK

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PROGRAMME	Qualification Code	Minimum APS	English	Mathematics	Physical Science**	Life Science ■	CAREER	CAMPUS
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<b>GEOLOGY AND MATHEMATICS</b>	<b>B2P75Q</b>	31	5 (60%+)	6 (70%+)	5 (60%+)*	-	Geomathematician, Geologist, Problem Analyst	APK
<b>GEOLOGY AND PHYSICS</b>	<b>B2P76Q</b>	31	5 (60%+)	6 (70%+)	5 (60%+)*	-	Physicist, Geophysicist, Geohydrologist, Geologist	APK
<b>PHYSICS AND APPLIED MATHEMATICS</b>	<b>B2P77Q</b>	31	5 (60%+)	6 (70%+)	5 (60%+)*	-	Problem Solver, Researcher in Astronomy and Energy Sources	APK
<b>PHYSICS AND MATHEMATICS</b>	<b>B2P78Q</b>	31	5 (60%+)	6 (70%+)	5 (60%+)*	-	Problem Solver, Researcher in Astronomy and Energy Sources	APK

\* A minimum rating of 5 for Mathematics if Mathematics 1A is included in the programme  
A minimum rating of 4 for Mathematics if Mathematics 1C is included in the programme  
\*\* A minimum rating of 5 for Physical Science if Chemistry 1A and/or Physics 1A is included in the programme  
A minimum rating of 4 for Physical Science if Chemistry 1C and/or Physics G1 and/or Biology are included in the programme  
■ A minimum rating of 4 for Life Science if Biology is included in the programme

#### EXTENDED DEGREE PROGRAMMES

##### Bachelor of Science in Information Technology (Extended)

<b>COMPUTER SCIENCE</b>	<b>B2E01Q</b>	26	4 (50%+)	5 (60%+)	-	-	Systems Analyst, Network Manager, Programmer, Web Developer, Web Master, Database Administrator, Software Engineer, Computer Graphics Designer, Information Technology Manager, Researcher	APK
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##### Bachelor of Science in Life and Environmental Sciences (Extended)

<b>BIOCHEMISTRY AND BOTANY</b>	<b>B2E10Q</b>	26	4 (50%+)	5 (60%+)	4 (50%+)**	■ 4 (50%+)	Analyst, Technologist, or Researcher at Sasol, Eskom, Pharmaceutical Companies, Mining Companies or in the Health Industry	APK
<b>BOTANY AND CHEMISTRY</b>	<b>B2E11Q</b>	26	4 (50%+)	5 (60%+)	4 (50%+)**	■ 4 (50%+)	Biologist, Botanist, Ecologist, Nature Conservation Scientist, Forensic Scientist	APK

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*Cairncrossite is a new mineral discovered in 2013 which was named after Professor Bruce Cairncross.*

PROGRAMME	Qualification Code	Minimum APS	English	Mathematics	Physical Science **	Life Science ■	CAREER	CAMPUS
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**Bachelor of Science in Life and Environmental Sciences (Extended)**

<b>BOTANY AND ZOOLOGY</b>	<b>B2E12Q</b>	26	4 (50%+)	5 (60%+)	4 (50%+)**	■ 4 (50%+)	Biologist, Nature Conservationist, Environmentalist, Ethno-Botanist, Ecologist, Entomologist, Pathologist, Parasitologist, Geneticist, Food Technologist, Zoologist	APK
<b>ZOOLOGY AND BIOCHEMISTRY</b>	<b>B2E17Q</b>	26	4 (50%+)	5 (60%+)	4 (50%+)**	■ 4 (50%+)	Zoologist, Biochemist, Nature Conservationist, Environmentalist, Ecologist, Entomologist, Pathologist, Geneticist, Food Technologist	APK
<b>ZOOLOGY AND CHEMISTRY</b>	<b>B2E18Q</b>	26	4 (50%+)	5 (60%+)	4 (50%+)**	■ 4 (50%+)	Zoologist, Chemical Technologist And Researcher	APK
<b>ZOOLOGY AND ENVIRONMENTAL MANAGEMENT</b>	<b>B2E19Q</b>	26	4 (50%+)	5 (60%+)	4 (50%+)**	■ 4 (50%+)	Geo-Zoologist, Population Geneticist, Environmental Ecologist and Specialist	APK
<b>ZOOLOGY AND GEOGRAPHY</b>	<b>B2E20Q</b>	26	4 (50%+)	5 (60%+)	4 (50%+)**	■ 4 (50%+)	Geo-Zoologist, Population Geneticist, Environmental Ecologist and Specialist	APK
<b>ZOOLOGY AND PHYSIOLOGY</b>	<b>B2E21Q</b>	26	4 (50%+)	5 (60%+)	4 (50%+)**	■ 4 (50%+)	Zoologist, Forensic Pathologist, Geneticist, Parasitologist	APK
<b>PHYSIOLOGY AND PSYCHOLOGY</b>	<b>B2E15Q</b>	26	4 (50%+)	5 (60%+)	4 (50%+)**	■ 4 (50%+)	Psychologist, Forensic Pathologist, Researcher	APK
<b>PHYSIOLOGY AND BIOCHEMISTRY</b>	<b>B2E14Q</b>	26	4 (50%+)	5 (60%+)	4 (50%+)**	■ 4 (50%+)	Biochemist, Researcher, Forensic Analyst, Biotechnologist	APK
<b>SPORT SCIENCES</b>	<b>B2E16Q</b>	26	4 (50%+)	5 (60%+)	4 (50%+)**	■ 4 (50%+)	Teaching, Training Specialist, Sports Scientist Researcher	APK
<b>GEOGRAPHY AND ENVIRONMENTAL MANAGEMENT</b>	<b>B2E13Q</b>	26	4 (50%+)	5 (60%+)	4 (50%+)**	■ 4 (50%+)	Location Analyst, Town Planner, Geo-Information Specialist, Environmental Rehabilitation Manager, Geomorphologist	APK

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PROGRAMME	Qualification Code	Minimum APS	English	Mathematics	Physical Science **	Life Science ■	CAREER	CAMPUS
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**Bachelor of Science in Mathematical Sciences (Extended)**

<b>APPLIED MATHEMATICS AND COMPUTER SCIENCE</b>	<b>B2E40Q</b>	26	4 (50%+)	5 (60%+)	4 (50%+)**	-	Computer Programmer, Systems Analyst, Mathematical Modulator	APK
<b>APPLIED MATHEMATICS AND MATHEMATICAL STATISTICS</b>	<b>B2E41Q</b>	26	4 (50%+)	5 (60%+)	-	-	Mathematician, Data compiler, Data Interpreter, Biometrician	APK
<b>APPLIED MATHEMATICS AND MATHEMATICS</b>	<b>B2E42Q</b>	26	4 (50%+)	5 (60%+)	4 (50%+)**	-	Mathematical Modulator, Mathematical adviser	APK
<b>MATHEMATICAL STATISTICS AND COMPUTER SCIENCE</b>	<b>B2E43Q</b>	26	4 (50%+)	5 (60%+)	-	-	Computer Programmer, Systems Analyst, Data Compiler and Analyst	APK
<b>MATHEMATICS AND COMPUTER SCIENCE</b>	<b>B2E44Q</b>	26	4 (50%+)	5 (60%+)	-	-	Computer Programmer, Systems Analyst, Mathematical Advisor	APK
<b>MATHEMATICS AND INFORMATICS</b>	<b>B2E45Q</b>	26	4 (50%+)	5 (60%+)	-	-	Computer Programmer, Systems Analyst	APK
<b>MATHEMATICS AND MATHEMATICAL STATISTICS</b>	<b>B2E46Q</b>	26	4 (50%+)	5 (60%+)	-	-	Financial Analyst, Economist	APK
<b>MATHEMATICS AND PSYCHOLOGY</b>	<b>B2E47Q</b>	26	4 (50%+)	5 (60%+)	-	-	Mathematician, Teacher, Researcher, Psychologist	APK

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*UJ staff in the Physics Department are playing a part in the ground-breaking research on The Large Hadron Collider.*

PROGRAMME	Qualification Code	Minimum APS	English	Mathematics	Physical Science **	Life Science ■	CAREER	CAMPUS
<b>Bachelor of Science in Physical Sciences (Extended)</b>								
<b>BIOCHEMISTRY AND CHEMISTRY</b>	<b>B2E70Q</b>	26	4 (50%+)	5 (60%+)	4 (50%+)**	■ 4 (50%+)	Scientist in the field of food and water, and biomedical, biotechnological and agricultural sectors	APK
<b>CHEMISTRY AND MATHEMATICS</b>	<b>B2E71Q</b>	26	4 (50%+)	5 (60%+)	4 (50%+)**	-	Chemistry, Researcher, Technologist, Problem Solver	APK
<b>CHEMISTRY AND PHYSICS</b>	<b>B2E72Q</b>	26	4 (50%+)	5 (60%+)	4 (50%+)**	-	Physicist, Researcher, Chemistry Technologist, Forensic Researcher	APK
<b>PHYSICS AND APPLIED MATHEMATICS</b>	<b>B2E73Q</b>	26	4 (50%+)	5 (60%+)	4 (50%+)**	-	Problem Solver, Researcher in Astronomy and Energy Sources	APK
<b>PHYSICS AND MATHEMATICS</b>	<b>B2E74Q</b>	26	4 (50%+)	5 (60%+)	4 (50%+)**	-	Problem Solver, Researcher in Astronomy and Energy Sources	APK

# In calculation of the total APS, Life Orientation must be divided by 2  
 \*\* A minimum rating of 4 for Physical Science is required if Chemistry and/or Physics are included in the programme  
 ■ A minimum rating of 4 for Life Science if Biology is included in the programme

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PROGRAMME	Qualification Code	Minimum APS	English	Mathematics	Physical Science	Life Science	CAREER	CAMPUS
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#### DIPLOMA PROGRAMMES

Diploma (Extended)								
<b>ANALYTICAL CHEMISTRY</b>	<b>D2ACEQ</b>	21	4 (50%+)	3 (40%+)	4 (50%+)	-	Analytical Chemists analyse raw materials and final products to gauge their quality levels	DFC
<b>BIOTECHNOLOGY</b>	<b>D2BTEQ</b>	21	4 (50%+)	3 (40%+)	3 (40%+)	3 (40%+)	Biotechnologists manipulate living cells for application in the baking, brewing, chemical, agricultural and pharmaceutical fields	DFC
<b>FOOD TECHNOLOGY</b>	<b>D2FTEQ</b>	21	4 (50%+)	3 (40%+)	3 (40%+)	3 (40%+)	Food Technologists research the production, processing, preservation, packing and distribution of food	DFC

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*UJ's Department of Botany and Plant Biotechnology,  
DNA Barcoded the Flora of the Kruger National Park.*

**For admission to a BSc degree (4 years)  
the applicant must have:**

- A NCV (level 4) issued by the Council for General and Further Education and Training.
- Achieved a minimum of 70% for 5 of the 7 subjects – fundamental and vocational categories.
- Passed English as Language of Teaching and Learning / First Additional Language as fundamental component with a minimum of 70%.
- Passed Mathematics and Physical Sciences as Fundamental Components with a minimum score of 70%.
- All applicants have to complete the NBT (National Benchmark Test) prior to admission. The result of the NBT will inform decisions taken on placement of the applicant.

**For admission to a National Diploma (4 years)  
the applicant must have:**

- A NCV (level 4) issued by the Council for General and Further Education and Training.
- Achieved a minimum of 60% for 6 of the 7 subjects – fundamental and vocational categories.
- Passed English as Language of Teaching and Learning/First Additional Language as fundamental component with a minimum of 70%.
- Passed Mathematics and Physical Sciences as Fundamental Components with a minimum score of 60%.
- All applicants have to complete the NBT (National Benchmark Test) prior to admission. The result of the NBT will inform decisions taken on placement of the applicant.