



**Specific Entry Requirements
for Undergraduate Degree Programmes
with A-Level Combinations and Equivalent
Entry Qualifications**

2023/2024

SCIENCE PROGRAMMES

Code	Programme Name	Duration (Years)	A-Level Combination	Direct Entry Qualifications (Form VI)	Equivalent Entry Qualifications
UD075	Bachelor of Science in Beekeeping Science and Technology	3	PCB, CBG, CBA, CBN	Two Principal passes from Biology and any of the following fields: Chemistry, Nutrition, Agriculture, Physics and Geography	Diploma in an appropriate field of Biological Sciences such as Beekeeping, Agriculture, Fisheries, Wildlife Management and Forestry with GPA not less than 3.5 or B+ grade or distinction or B grade for FTC
UD076	Bachelor of Science in Agricultural Engineering and Mechanization	4	PCM, PGM, PMC	Principal passes in Mathematics and Physics . An applicant without at least a subsidiary pass in Chemistry must have a minimum of "C" at O' Level. In addition an applicant must have a minimum of D grade in Biology at O' Level	Diploma or Full Technician Certificate (FTC) in Agricultural Engineering, Civil Engineering, Mechanical Engineering, Agro- mechanization, Electrical Engineering, Water Resources Engineering, Mining Engineering and General Agricultural with an average of "B+"" or a minimum GPA of 3.5. In addition, an applicant must have a minimum of "D" grade in either Mathematics, Biology, or Chemistry at O- Level.
UD078	Bachelor of Science in Agricultural and Natural Resources Economics and Business	3	ECA, EGM, HGE	Two Principal passes in Economics and either Commerce, Agriculture, Geography and Mathematics	Diploma in Beekeeping, Agribusiness, Economics, Agriculture, Fisheries, Wildlife Management or Forestry recognised by UDSM Senate with an average of "B+" or a minimum GPA of 3.5.
UD083	Bachelor of Science in Crop Science and Technology	3	PCB, CBG, CBA, CBN, PCM	Two principal passes in Agriculture, Biology, Chemistry, Geography, Physics, or Nutrition	Diploma in Agriculture, Crop Production, Horticulture, Home Economics and Nutrition with a GPA of not less than 3.5 approved by the UDSM Senate.
5. MBEYA COLLEGE OF HEALTH AND ALLIED SCIENCES (UDSM-MCHAS)					
UD080	Doctor of Medicine	5	PCB	Three principal passes in Physics, Chemistry, and Biology with a minimum of D grade	Diploma in Clinical Medicine recognised by UDSM Senate with an average of "B+" or a minimum GPA of 3.5.
UD098	Doctor of Dental Surgery	5	PCB	Three principal passes in Physics, Chemistry and Biology with a minimum of D grade	Diploma in Dental Health Sciences recognised by UDSM Senate with an average of "B+" or a minimum GPA of 3.5.
6. INSTITUTE OF MARINE SCIENCES (IMS)					
UD087	Bachelor of Science in Marine Sciences	3	PCB, CBG, CBN, CBA,	Two principal passes, one in Biology and another in any of the following subjects: Chemistry, Agriculture, Physics, Geography and Mathematics	Diploma in Fisheries, Aquaculture, Agriculture, Education (with science subjects), Maritime, and Forestry with a GPA of not less than 3.5 approved by the UDSM Senate.
7. SCHOOL OF MINES AND GEOSCIENCES (SoMG)					
UD026	Bachelor of Science in Engineering Geology	4	PCM, PGM, PMC	Principal passes in Mathematics and Physics . Those without at least a Subsidiary Pass in Chemistry must have a Credit at O- Level. Specific Requirements: Physical fitness	Diploma in Geological Sciences, with GPA not less than 3.5 or B+ grade or distinction. Specific Requirements: Physical fitness

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UD028	Bachelor of Science in Geology	3	PCM	Principal passes in Mathematics, Physics and chemistry. Specific Requirements: Physical fitness	Diploma in Geological Sciences with GPA not less than 3.5 or B+ grade or distinction. Specific Requirements: Physical fitness
UD033	Bachelor of Science with Geology	4	PCB, PCM, PGM, EGM, CBG, CBA, CBN, PMC	Two Principal passes from the following subjects: Physics, Chemistry, Biology, Geography and Mathematics. Candidates without at least a Subsidiary pass in Chemistry must have a Credit pass at O-Level. Specific Requirements: Physical fitness	Diploma in Geological Sciences with GPA not less than 3.5 or B+ grade or distinction. Specific Requirements: Physical fitness
UD059	Bachelor of Science in Petroleum Geology	4	PCM	Principal passes in Mathematics, Physics and Chemistry. Specific Requirements: Physical fitness	Diploma in Geological sciences with GPA not less than 3.5 or B+ grade or distinction. Specific Requirements: Physical fitness
UD091	Bachelor of Science in Geophysics	4	PCM, PGM, PMC	Two Principal passes in Mathematics and Physics	Diploma in Physical Sciences, Mineral and Water Resources, and related fields with a GPA NOT less than 3.5 from recognised Colleges as approved by the UDSM senate
UD092	Bachelor of Science in Geology and Geothermal Resources	4	PCM	Principal passes in Physics Chemistry and Mathematics	Diploma in Geological sciences of at least an upper second class award (GPA of at least 3.5 out of 5) from a recognised colleges as approved by the UDSM Senate
UD016	Bachelor of Science in Mining Engineering	4	PCM, PGM, PMC	Two Principal passes in Mathematics and Physics . Those without at least a Subsidiary pass in Chemistry must have a Credit at O- Level	Diploma/FTC in Sciences or <i>Mining Engineering</i> , with a Credit Pass in Mathematics and an overall GPA not less than 3.5 or B+ grade or distinction or B average for FTC
UD057	Bachelor of Science in Metallurgy and Mineral Processing Engineering	4	PCM, PGM, PMC	Two Principal passes in Mathematics and Physics. Those without at least a subsidiary in Chemistry must have a credit pass in Chemistry at O-Level	Diploma or FTC in Mineral Processing, with a Credit Pass in Mathematics and with GPA not less than 3.5 or B grade or distinction or B grade for FTC
UD060	Bachelor of Science in Petroleum Engineering	4	PCM	Two Principal passes in Mathematics and Physics and at least a Subsidiary pass in Chemistry	Diploma/FTC in Petroleum Engineering and Credit pass in Mathematics with a Credit pass in Mathematics and with GPA not less than 3.5 or B grade or distinction or B grade for FTC
8. SCHOOL OF AQUATIC SCIENCES AND FISHERIES (SoAF)					
UD065	Bachelor of Science in Aquatic Sciences and Fisheries	3	PCB, CBG, CBA, CBN	Two principal passes, one in Biology and one from the following subjects: Chemistry, Geography, Agriculture, Physics or Advanced Mathematics.	Diploma in Biological Sciences recognised by UDSM Senate with GPA of 3.5 or an average of B+

CONTACTS

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1. COLLEGE OF ENGINEERING AND TECHNOLOGY (CoET)					
UD013	Bachelor of Science in Chemical and Processing Engineering	4	PCM, PGM, PMC	Principal passes in Mathematics and Physics. Those without at least a subsidiary pass in Chemistry must have a Credit at O- Level	Diploma or Full Technician Certificate (FTC) in Sciences or Laboratory Technology recognised by UDSM Senate with an average of "B+" or a minimum GPA of 3.5. In addition, an applicant must have a minimum of "C" grade in Mathematics at O-Level.
UD015	Bachelor of Science in Electrical Engineering	4	PCM, PGM, PMC	Principal passes in Mathematics and Physics. Those without at least a Subsidiary pass in Chemistry must have a Credit at O- Level	Diploma in Sciences/FTC in Electrical Engineering or Electronics, with a Credit Pass in Mathematics and an overall average of B + with GPA not less than 3.5 or B grade or distinction or B average for FTC
UD017	Bachelor of Science in Textile Engineering	4	PCM, PGM, PMC	Principal passes in Mathematics and Physics. Those without at least a Subsidiary pass in Chemistry must have a Credit at O- Level	Diploma/FTC in Sciences, Laboratory Technology, with a Credit Pass in Mathematics and an overall average of B+ with GPA not less than 3.5 or B grade or distinction or B average for FTC
UD018	Bachelor of Science in Textile Design and Technology	4	PCM, PCB, PGM, EGM, CBG, CBA, CBN, HGL, ECA HGK, HKL, KLF, HGE, KFC	Any two Principal passes in Science or Arts subjects including Fine Arts. Candidates must have Passes in Chemistry at O- Level and Mathematics at O- Level or Basic Applied Mathematics at A- Level	Diploma/FTC in Sciences, Laboratory Technology or Architecture, with a Credit Pass in Mathematics and an overall average of B+ (Upper Second Class) with GPA of not less than 3.5 or B grade or distinction or B grade for FTC

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UD055	Bachelor of Science in Mechanical Engineering	4	PCM, PGM, PMC	Principal Passes in Mathematics and Physics. Those without a Principal in Chemistry must have a Credit at O-Level	Diploma or FTC in Mechanical Engineering, Agro- mechanics, Automotive, Industrial Automations or Marine Engineering, with a Credit Pass in Mathematics and with GPA not less than 3.5 or B+ grade or distinction or B grade for FTC
UD056	Bachelor of Science in Industrial Engineering	4	PCM, PGM, PMC	Principal Passes in Mathematics and Physics. Those without Principal in Chemistry must have a Credit at O- Level	Diploma or FTC in Mechanical Engineering, Agro- Mechanics, Automotive, Industrial Automations, Marine Engineering, with a Credit Pass in Mathematics and with GPA not less than 3.5 or B+ grade or distinction or B grade for FTC
UD058	Bachelor of Science in Civil Engineering	4	PCM, PGM, PMC	Principal passes in Mathematics and Physics. Those without at least a Subsidiary in Chemistry must have a Credit pass in Chemistry at O- Level	Diploma or FTC in Civil, Transportation, Highway or Water Resources Engineering, with a Credit Pass in Mathematics and with GPA not less than 3.5 or B+ grade or distinction or B grade for FTC
UD063	Bachelor of Architecture	5	PCM, PGM, PCB, CBN, CBA, PMC, EGM	Two Principal passes in any of the following subjects: Physics, Chemistry, Biology, Mathematics, Geography or Fine Arts	Diploma in Architecture recognised by UDSM Senate with GPA not less than 3.5 or B+ grade or distinction or B grade for FTC
UD077	Bachelor of Science in Quantity Surveying	4	PCM, PGM, PMC	Principal passes in Mathematics and Physics	Diploma in relevant fields of technical education (NTA 6) such as Diploma in any Engineering programme with GPA not less than 3.5 or B+ grade or distinction or B grade for FTC
UD079	Bachelor of Science in Geomatics	4	PMC, PCM, PGM, EGM	Principal passes in Mathematics and either Physics, Geography, Chemistry or Computer Science. If the second Principal pass is not Physics, the candidate must have at least a Subsidiary pass in Physics	Diplomas in relevant fields including Water resources, Geomatics and Civil Engineering with GPA not less than 3.5 or B+ grade or distinction or B grade for FTC and at least C grade in Mathematics
2. COLLEGE OF NATURAL AND APPLIED SCIENCES (CoNAS)					
UD021	Bachelor of Science in Actuarial Sciences	3	PCM, PGM, EGM, PMC	Two Principal Passes, one of which must be in Mathematics	Diploma in Mathematical Sciences, Statistics, recognised by UDSM Senate with GPA not less than 3.5 or B+ grade or distinction. Must have at least a Credit in Mathematics or Statistics
UD022	Bachelor of Science in Applied Zoology	3	PCB, CBG, CBA, CBN	Two principal passes, one in Biology and another in any of the following subjects: Physics, Chemistry, Geography, or Advanced Mathematics	Diploma in Biological Sciences with at least second class with GPA not less than 3.5 or B+ grade or distinction or B average for FTC
UD024	Bachelor of Science in Botanical Sciences	3	PCB, CBG, CBA, CBN	Two principal passes, one in Biology and another in any of the following subjects: Physics, Chemistry, Geography, or Advanced Mathematics	Diploma in Biological Sciences, Forestry, Agriculture, Wildlife with GPA not less than 3.5 or B+ grade or distinction or B average for FTC

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UD025	Bachelor of Science in Chemistry	3	PCB, CBG, CBA, CBN, PCM	Two Principal passes one in Chemistry and another in any of the following subjects: Biology, Physics, Mathematics, Nutrition or Geography	Diploma in Chemistry, Chemical Laboratory Technology, with GPA not less than 3.5 or B+ grade or distinction or B average for FTC
UD029	Bachelor of Science in Microbiology	3	PCB, CBG, CBA, CBN	Two principal passes, one in Biology and another in any of the following subjects: Physics, Chemistry, Geography, or Advanced Mathematics	Diploma in Biological sciences, Health and Allied Sciences with GPA not less than 3.5 or B + grade or distinction or B average for FTC
UD030	Bachelor of Science in Molecular Biology and Biotechnology	3	PCB, CBG, CBA, CBN	Two principal passes, one in Biology and another in any of the following subjects: Physics, Chemistry, Geography, or Advanced Mathematics	Diploma in Biological sciences, Nursing, Public Health, Clinical Medicine, Pharmaceutical Studies or Medical Laboratory Sciences with GPA not less than 3.5 or B+ grade or distinction or B average for FTC
UD031	Bachelor of Science in Wildlife Science and Conservation	3	PCB, CBG, CBA, CBN	Two principal passes, one in Biology and another in any of the following subjects: Physics, Chemistry, Geography, or Advanced Mathematics	Diploma in Biological Sciences, Beekeeping, Wildlife with GPA not less than 3.5 or B+ grade or distinction or B average for FTC
UD032	Bachelor of Science with Education	3	PCB, PCM, PGM, EGM, CBG, CBA, CBN	Two Principal passes in any of the following subjects: Physics, Chemistry, Mathematics, Biology, Economics and Geography	Diploma in Science subjects, Science Education, FTC, with GPA not less than 3.5 or B+ grade or distinction or B average for FTC
UD061	Bachelor of Science in Petroleum Chemistry	3	CBG, CBN, CBA, PCM, PCB	Principal passes in Chemistry and either Mathematics, Physics, Biology or Geography	Diploma in Chemistry and related fields with GPA not less than 3.5 or B+ grade or distinction or B grade for FTC and at least a Credit in Chemistry at O-Level
UD062	Bachelor of Science in Meteorology	3	PCM, PGM, PMC	Principal passes in Mathematics and Physics	Diploma in Meteorology recognised by UDSM Senate with GPA not less than 3.5 or B+ grade or distinction
UD089	Bachelor of Science in Mathematics and Statistics	3	PCM, PGM, EGM, PMC	Two principal passes one in Mathematics and another in any of the following: Economics, Geography, Commerce, Accountancy, Physics, Chemistry, Biology or Computer Science	Diploma in Mathematics, Statistics, Economics or other relevant discipline of not less than second-class with GPA not below 3.5 and a grade in Statistics or Mathematics or Quantitative Methods of C or better, to be approved by the Senate
UD095	Bachelor of Science in Chemistry and Physics	3	PCM, PCB	Principal passes in Chemistry and Physics in addition an applicant MUST have passes in Chemistry Physics and Mathematics at O'Level	Diploma in Chemistry Physics and related fields of at least an upper second class award with GPA of at least 3.5 from a recognised colleges as approved by the UDSM Senate
UD096	Bachelor of Science in Applied Microbiology and Chemistry	3	PCB, CBG, CBN, CBA	Two principal passes in Chemistry and Biology	Diploma in Biological Sciences, Nursing, Public Health, Clinical Medicine, Pharmaceutical Studies or Medical Laboratory Sciences with an average of B+ or minimum GPA of 3.5

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3. COLLEGE OF INFORMATION AND COMMUNICATION TECHNOLOGIES (CoICT)					
UD034	Bachelor of Science in Computer Science	3	PCM, PGM, PMC	Two principal passes in Mathematics and Physics.	Diploma or Full Technician Certificate (FTC) in Computer Science, I T, ICT or Electronic Science and Communication recognised by UDSM Senate with an average of "B+" or a minimum GPA of 3.5. In addition, an applicant must have a minimum of "C" grade in Mathematics at O-Level
UD035	Bachelor of Science in Electronic Science and Communication	3	PCM, PGM, PMC	Principal passes in Mathematics and Physics	Diploma in Sciences, Computer Science, IT, ICT, with GPA not less than 3.5 or B+ grade or distinction or B average for FTC
UD014	Bachelor of Science in Computer Engineering and Information Technology	4	PCM, PGM, PMC	Two principal passes in Mathematics and Physics . An applicant without at least a subsidiary pass in Chemistry must have a minimum of "C" grade at O-Level.	Diploma or Full Technician Certificate (FTC) in Sciences, ICT, Computer Science, Electronics or Laboratory Technology recognised by UDSM Senate with an average of "B+" or a minimum GPA of 3.5. In addition, an applicant must have a minimum of "C" grade in Mathematics at O-Level
UD019	Bachelor of Science in Telecommunications Engineering	4	PCM, PGM, PMC	Two principal passes in Advanced Mathematics and Physics . An applicant without at least a subsidiary pass in Chemistry must have a minimum of "C" grade at O-Level -Level.	Diploma or Full Technician Certificate (FTC) in Computer Engineering, Electronics Engineering or Telecommunications Engineering with an average of "B+" or a minimum GPA of 3.5. In addition, an applicant must have a minimum of "C" grade in Mathematics at O-Level.
UD086	Bachelor of Science in Electronics Engineering	4	PCM, PGM, PMC	Principal passes in Mathematics and Physics . Those without at least a Subsidiary Pass in Chemistry must have a Credit at O- Level	Diploma in Information Technology, Computer Engineering, Computer Science, Electronics, Laboratory Technology, Mechanical, Electrical, Automobile, Transport, Air Craft Maintenance, Biomedical Engineering, with GPA not less than 3.5 or B+ grade or distinction or B average for FTC
UD090	Bachelor of Science in Business Information Technology	3	PCM, PGM, EGM, PMC	Two principal passes in the following subjects: Mathematics, Physics, Chemistry, Biology, and Economics. In addition, for applicants without Advanced Mathematics in their principal subjects must have a minimum of "C" grade in Mathematics at O-level.	Diploma/Full Technician Certificate (FTC) in Mathematics, Statistics, Economics, Computer Science, Information Technology, Computer Engineering, Electronics or Telecommunication Engineering with G.P.A not less than 3.5 or B+ grade or distinction
4. COLLEGE OF AGRICULTURE AND FOOD TECHNOLOGY (CoAF)					
UD074	Bachelor of Science in Food Science and Technology	4	PCB, CBG, CBA, CBN	Two Principal passes from Biology and any of the following subjects: Chemistry, Physics and Nutrition. An applicant without at least a subsidiary pass in Mathematics must have a minimum of "D" at O- Level	Diploma in Food Science and Technology, Agriculture, Nutrition, Engineering and Technology, and related fields with GPA not less than 3.5 or B+ grade or distinction or B grade for FTC