



SPECIFIC ENTRY REQUIREMENTS FOR UNDERGRADUATE DEGREE PROGRAMMES WITH A-LEVEL COMBINATIONS AND EQUIVALENT ENTRY QUALIFICATIONS 2025/2026

SCIENCE PROGRAMMES

1. COLLEGE OF ENGINEERING AND TECHNOLOGY (CoET)					
Code	Programme Name	Duration (Years)	A-Level Combination	Direct Entry Qualifications (Form VI)	Equivalent Entry Qualifications
UD013	Bachelor of Science in Chemical and Process Engineering	4	PCM, PGM, PMC and other related subject combinations	Two principal passes with at least D grade 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.	Diploma in Chemical Engineering, Process Engineering or Chemical and Process Engineering, Oil and Gas Engineering, and Mineral Processing Engineering with a minimum of C grade in Basic Mathematics at O' Level recognized by UDSM Senate with a GPA not less than 3.5 or B+ or distinction or B average for FTC
UD015	Bachelor of Science in Electrical Engineering	4	PCM, PGM, PMC and other related subject combinations	Two principal passes with at least D grade 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	Diploma/ FTC in Electrical Engineering or related field with a Credit Pass in Mathematics at O-Level recognized by UDSM Senate with a GPA not less than 3.5 or B+ or distinction
UD017	Bachelor of Science in Textile Engineering	4	PCM, PGM, PMC and other related subject combinations	Two Principal Level passes in Advanced Mathematics and Physics or Chemistry or Geography or Computer Science or Biology. Candidates without subsidiary pass in Chemistry at A- Level must have at least a 'C' grade in Chemistry at O-level.	Diploma/FTC in Sciences, Laboratory Technology recognized by UDSM Senate with GPA not less than 3.5 or average of B+ or distinction or B average for FTC and a Credit Pass in Mathematics at O-Level
UD018	Bachelor of Science in Textile Design and Technology	4	PCM, PCB, PMC, PGM, EGM, CBG, CBA, CBN, HGL, ECA HGK, HKL, KLF, HGE, KFC and other related subject combinations	Two passes of at least 'D' grade at A-Level in any Science, Fine Art, Textile and Garment Construction, Geography, Economics or English Language subjects. Applicants without a Subsidiary grade in Mathematics at A-level must have at least "C" grade at CSEE in Mathematics.	Diploma/FTC in Sciences, Laboratory Technology or Architecture, recognized by UDSM Senate with GPA not less than 3.5 or average of B+ or distinction or B average for FTC

Code	Programme Name	Duration (Years)	A-Level Combination	Direct Entry Qualifications (Form VI)	Equivalent Entry Qualifications
UD055	Bachelor of Science in Mechanical Engineering	4	PCM, PGM, PMC and other related subject combinations	Principal Passes in Advanced Mathematics and Physics. Those without a Subsidiary in Chemistry must have a Credit at O-Level	Diploma or Full Technician Certificate (FTC) in Mechanical Engineering, Electromechanical, Mechatronics Engineering, Agro-mechanics, Automotive, Industrial Engineering, Electrical Engineering, Industrial Automations or Marine Engineering recognized by UDSM Senate with GPA not less than 3.5 or average of B+ or distinction or B average for FTC and a Credit Pass in Mathematics at O-Level
UD056	Bachelor of Science in Industrial Engineering	4	PCM, PGM, PMC and other related subject combinations	Principal Passes in Advanced Mathematics and Physics. Those without Principal in Chemistry must have a Credit at O-Level	Diploma or Full Technician Certificate (FTC) in Industrial Engineering, Mechanical Engineering, Mechatronics, Electromechanical Engineering, Agro-mechanics, Automotive, Industrial Automation, Computer Engineering, Marine Engineering, Electrical Engineering, Biomedical Engineering or any other relevant diploma, recognized by UDSM Senate with GPA not less than 3.5 or average of B+ or distinction or B average for FTC and a Credit Pass in Mathematics at O-Level
UD058	Bachelor of Science in Civil Engineering	4	PCM, PGM, PMC and other related subject combinations	Principal passes in Advanced 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 recognized by UDSM Senate with GPA not less than 3.5 or average of B+ or distinction or B average for FTC and a Credit Pass in Mathematics at O-Level
UD063	Bachelor of Architecture	5	PCM, PGM, PCB, CBN, CBA, PMC	Two Principal passes in any of the following subjects: Physics, Chemistry, Biology, Advanced Mathematics, Geography or Fine Arts	Diploma in Architecture recognized by UDSM Senate with GPA not less than 3.5 or average of B+ or distinction or B average for FTC. In addition, one must have a C grade or above in Mathematics at O-Level
UD077	Bachelor of Science in Quantity Surveying	4	PCM, PGM, PMC and other related subject combinations	Principal passes in Advanced Mathematics and Physics	Diploma in any Engineering programme recognized by UDSM Senate with GPA not less than 3.5 or B+ or distinction or B average for FTC
UD079	Bachelor of Science in Geomatics	4	PMC, PCM, PGM and other related subject combinations	Two Principal passes in Mathematics and either Physics, Geography, Chemistry or Computer Science at A-Level. If the second principal pass is not Physics, the candidate must at least have a subsidiary pass in Physics in addition to the two principal passes	Diplomas in relevant fields including Water resources, Geomatics and Civil Engineering, recognized by UDSM Senate with GPA not less than 3.5 or average of B+ or distinction or B average for FTC and at least C grade in Mathematics
1. COLLEGE OF NATURAL AND APPLIED SCIENCES (CoNAS)					
UD021	Bachelor of Science in Actuarial Sciences	3	PCM, PGM, EGM, PMC and other related subject combinations	Two Principal Passes, one of which must be in Advanced Mathematics	Diploma in Mathematical Sciences, Statistics, recognized 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 and other related subject combinations	Two principal passes, one must be in Biology and another in any of the following subjects: Physics, Chemistry, Geography, or Advanced Mathematics and at least a 'C' pass in Biology at O-Level	Diploma in Wildlife, Animal sciences, Veterinary Science, Forestry, Agriculture and Bee-keeping recognized by UDSM Senate 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 and other related subject combinations	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 recognized by UDSM Senate with GPA not less than 3.5 or B+ grade or distinction or B average for FTC

Code	Programme Name	Duration (Years)	A-Level Combination	Direct Entry Qualifications (Form VI)	Equivalent Entry Qualifications
UD025	Bachelor of Science in Chemistry	3	PCB, CBG, CBA, CBN, PCM and other related subject combinations	Two Principal passes one in Chemistry and another in any of the following subjects: Biology, Physics, Advanced Mathematics, Nutrition or Geography.	Diploma in Chemistry or related fields such as Pharmaceutical Science, Laboratory Technology, Analytical Chemistry recognized by UDSM Senate with GPA not less than 3.5 or B+ grade or distinction or B average for FTC. In addition, one must have a C grade or above in chemistry at O-Level.
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 recognized by UDSM Senate 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 recognized by UDSM Senate 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 and other related subject combinations	Two principal passes, one in Biology and another in any of the following subjects: Physics, Chemistry, Geography, or Advanced Mathematics	Diploma in wildlife, animal sciences, veterinary science, forestry, agriculture, nature-based tourism recognized by UDSM Senate 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, PMC, EGM, CBG, CBA, CBN and other related subject combinations	Two Principal passes in any of the following subjects: Physics, Chemistry, Advanced Mathematics, Biology, Economics and Geography	Diploma in Science subjects, Science Education recognized by UDSM Senate 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, CPM, PCB and other related subject combinations	Two Principal passes one in Chemistry and another in any of the following subjects: Biology, Physics, Advanced Mathematics, Nutrition, Geography or Agriculture.	Diploma in Chemistry or related fields such as Petroleum Sciences, Laboratory Technology recognized by UDSM Senate with GPA not less than 3.5 or B+ grade or distinction or B grade for FTC. In addition, one must have a C grade or above in chemistry at O-Level.
UD062	Bachelor of Science in Meteorology	3	PCM, PGM, PMC and other related subject combinations	Two principal passes in Advanced Mathematics and Physics	Diploma in Meteorology recognized 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 and other related subject combinations	Two principal passes one in Advanced 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 recognized by UDSM Senate with GPA not less than 3.5 or B+ and a grade of C or better in Statistics or Mathematics or Quantitative Methods
UD095	Bachelor of Science in Chemistry and Physics	3	PCM and other related subject combinations	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 or related fields such as Laboratory Technology, Science Education, Pharmaceuticals and Meteorology and related fields recognized by UDSM Senate with GPA not less than 3.5 or B+ grade.
UD096	Bachelor of Science in Applied Microbiology and Chemistry	3	PCB, CBG, CBN, other related subject combinations	Two principal passes in Chemistry and Biology. In addition, passes in chemistry, Physics and Basic Mathematics at O-Level are compulsory	Diploma in Biological Sciences, Nursing, Public Health, Clinical Medicine, Pharmaceutical Studies or Medical Laboratory Sciences recognized by UDSM Senate with GPA not less than 3.5 or B+ grade. In addition, credit passes in chemistry and biology at O-Level are compulsory

Code	Programme Name	Duration (Years)	A-Level Combination	Direct Entry Qualifications (Form VI)	Equivalent Entry Qualifications
2. COLLEGE OF INFORMATION AND COMMUNICATION TECHNOLOGIES (CoICT)					
UD034	Bachelor of Science in Computer Science	3	PCM, PGM, PMC other related subject combinations	Two principal passes in the following subjects Advanced Mathematics and Physics or Computer Science	Diploma in Computer Science, Information Technology, Information Communication Technology or Electronic Science and Communication recognized 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.
UD014	Bachelor of Science in Computer Engineering and Information Technology	4	PCM, PGM, PMC other related subject combinations	Two principal passes in Advanced Mathematics and Physics or Computer Science . An applicant without at least a subsidiary pass in Chemistry must have a minimum of "C" grade at O-Level	Diploma in ICT, Computer Science, Electronics or Laboratory Technology recognized by UDSM Senate with GPA not less than 3.5 or B+. 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 other related subject combinations	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/FTC in ICT, Computer Science, Electronics or Laboratory Technology recognized by UDSM Senate with GPA not less than of 3.5 or B+. 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 other related subject combinations	Two principal passes in Advanced Mathematics and Physics .	Diploma/FTC in ICT, Computer Science, Electronics Engineering, Electronics Science and Communication, Telecommunications Engineering, or Laboratory Technology recognized by UDSM Senate with GPA not less than of 3.5 or B+. In addition, an applicant must have a minimum of "C" grade in Mathematics and Physics at O-Level.
UD086	Bachelor of Science in Electronics Engineering	4	PCM, PGM, PMC other related subject combinations	Two Principal passes in Advanced Mathematics and Physics . Those without at least a Subsidiary Pass in Chemistry must have a Credit at O-Level	Diploma in ICT, Computer Science, Electronics or Laboratory Technology recognized by UDSM Senate with GPA not less than 3.5 or B+ grade. In addition, an applicant must have a minimum of 'C' grade in Mathematics and Physics at O-Level
UD090	Bachelor of Science in Business Information Technology	3	PCM, PGM, EGM, PMC other related subject combinations	Two principal passes in the following subjects: Advanced Mathematics and Physics or Chemistry , or Computer Science or 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 in Mathematics, Statistics, Economics, or ICT-related subjects recognized by UDSM Senate with GPA not less than 3.5 or B+ grade. In addition, an applicant must have a minimum of 'D' grade in Mathematics at O-Level.
3. COLLEGE OF AGRICULTURAL AND FOOD SCIENCES AND TECHNOLOGY (CoAF)					
UD074	Bachelor of Science in Food Science and Technology	4	PCB, CBG, CBA, CBN other related subject combinations	Two Principal passes in Biology and in one of the following subjects: Chemistry , Physics or Nutrition . In addition, an applicant Must HAVE passes in Biology , Chemistry , Physics and Basic Applied Mathematics at A-level or Mathematics at O- Level.	Diploma in an appropriate field of Food Science and technology such as, Agriculture, Fisheries, Engineering and Technology and related fields recognized by UDSM Senate with GPA not less than 3.5 or B+ grade or distinction or B grade for FTC.

Code	Programme Name	Duration (Years)	A-Level Combination	Direct Entry Qualifications (Form VI)	Equivalent Entry Qualifications
UD075	Bachelor of Science in Bee Science and Technology	3	PCB, CBG, CBA, CBN and other related subject combinations	Two Principal passes in Biology and in one of the following subjects: Chemistry, Nutrition, Agriculture, Physics and Geography.	Diploma in Biological Sciences, Beekeeping, Crop Production, Food Science, General Agriculture, Horticulture, Agronomy, Fisheries, Wildlife Management, Forestry, Natural Resources Management and Biodiversity conservation, Forest Industries Technology, and education (with Biological related subjects). Bee resource management, Environmental Science and Technology recognized by UDSM Senate with GPA not less than 3.5 or B+ grade or distinction
UD076	Bachelor of Science in Agricultural Engineering and Mechanization	4	PCM, PGM, PMC other related subject combinations	Principal passes in Advanced 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 in Civil Engineering, Mechanical Engineering, Electrical Engineering, Water Resources and Mining Engineering with a GPA of not less than 3.5 or grade B from recognized institutions. A credit in Mathematics at O- Level is compulsory
UD078	Bachelor of Science in Agricultural and Natural Resources Economics and Business	3	ECA, EGM, HGE and other related subject combinations	Two principal passes in Economics and either Commerce, Agriculture, Geography and Advanced Mathematics.	Diploma in Agribusiness, Economics, Agriculture or Business recognized by UDSM Senate with GPA not less than 3.5 or B+ grade.
UD083	Bachelor of Science in Crop Science and Technology	3	PCB, CBG, CBA, CBN and other related subject combinations	Two principal passes in the following subjects: Agriculture, Biology, Chemistry, Geography, Physics or Nutrition.	Diploma in Crop Production, Horticulture, Home Economics and Nutrition, Agromechanization, Irrigation, Agronomy, General agriculture, Natural Resources Management and Biodiversity conservation, Forestry, Animal science, Beekeeping recognized by UDSM Senate with a GPA not less than 3.5 or B+ grade.
4. 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 recognized by UDSM Senate with GPA not less than 3.5 or B+ grade.
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 recognized by UDSM Senate with GPA not less than 3.5 or B+ grade.
5. INSTITUTE OF MARINE SCIENCES (IMS)					
UD087	Bachelor of Science in Marine Sciences	3	PCB, CBG, CBN, CBA,	Two principal passes in Biology and in one of the following subjects: Chemistry, Agriculture, Physics, Geography and Advanced Mathematics.	Diploma in Crop Production, Horticulture, Home Economics and Nutrition, Agromechanization, Irrigation, Agronomy, General agriculture, Natural Resources Management and Biodiversity conservation, Forestry, Animal science, Beekeeping recognized by UDSM Senate with GPA not less than 3.5 or B+ grade
6. SCHOOL OF MINES AND GEOSCIENCES (SoMG)					
UD026	Bachelor of Science in Engineering Geology	4	PCM, PGM, PMC	Two Principal passes in Advanced Mathematics and Physics. Those without at least a Subsidiary Pass in Chemistry must have a Credit at O-Level. Specific Requirements: Physical fitness	Diploma/FTC diploma in Geology, Geology and Mineral Exploration, or any other equivalent field, recognized by UDSM Senate with GPA not less than 3.5 or B+ . In addition, one must have a credit pass in Physics, Chemistry and Mathematics at O' Level. Special Requirements: Physical fitness.

Code	Programme Name	Duration (Years)	A-Level Combination	Direct Entry Qualifications (Form VI)	Equivalent Entry Qualifications
UD028	Bachelor of Science in Geology	3	PCM	Principal passes in Advanced Mathematics, Physics and chemistry. Specific Requirements: Physical fitness	Diploma in in Geology, Geology and Mineral Exploration, or any other equivalent field recognized by UDSM Senate 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 level passes in any of the following subjects: Physics, Chemistry, Biology, Geography, Advanced Mathematics or Computer Science.	Diploma in Geology, Geology and Mineral Exploration, or any other equivalent recognized by UDSM Senate with an average of "B+" or a minimum GPA of 3.5. In addition, one must have a credit pass in Physics, Chemistry and Mathematics at O-Level.
UD059	Bachelor of Science in Geology with Petroleum Resources	4	PCM	Principal passes in the following subjects: Advanced Mathematics, Physics and Chemistry.	Diploma in Geology, Petroleum Geology, Geology and Mineral Exploration, or any other related field recognized by UDSM Senate with GPA not less than 3.5 or B+ grade or distinction. In addition, one must have a credit pass in Physics, Chemistry and Mathematics at O-Level.
UD091	Bachelor of Science in Geophysics	4	PCM, PGM, PMC	Two Principal passes in Advanced Mathematics and Physics	Diploma in Geophysics, Geology, Geology Hydrogeology and Mineral Exploration, or any other related field recognized by UDSM Senate with GPA not less than 3.5 or B+ grade. In addition, one must have a credit pass in Physics, and Mathematics at O-Level.
UD092	Bachelor of Science in Geology and Geothermal Resources	4	PCM	Two principal passes in Physics, Chemistry or Advanced Mathematics	Diploma in Geology, Geology and Mineral Exploration, or any other related field recognized by UDSM Senate with an average of "B+" or a minimum GPA of 3.5. Additionally, one must have a credit pass in Physics, Chemistry, and Mathematics at O-Level.
UD016	Bachelor of Science in Mining Engineering	4	PCM, PGM, PMC	Two Principal passes in Advanced Mathematics and Physics. Those without at least a Subsidiary pass in Chemistry must have a Credit at O-Level	Diploma/FTC in Mining Engineering, with a Credit pass in Mathematics at O-Level recognized by UDSM Senate with 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 Advanced 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, recognized by UDSM Senate with a Credit Pass in Mathematics at O- Level 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 Advanced Mathematics and Physics and at least a Subsidiary pass in Chemistry	Diploma/FTC in Petroleum Engineering, Oil and Gas Engineering, and other related field recognized by UDSM Senate with GPA not less than 3.5 or B grade or distinction or B grade for FTC. Additionally, one must have a C grade or above in Mathematics at O-Level
7. 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 recognized by UDSM Senate with GPA not less than 3.5 or an average of B+

CONTACTS

DIRECTORATE OF UNDERGRADUATE STUDIES

University of Dar es Salaam, P.O. Box 35091, Dar es Salaam, Tanzania,
Tel: +255 22 2410513, +255 22 2410544
Email: dus@udsm.ac.tz