



Oasis of Knowledge

College of Medicine and Health Science

DEPARTMENT OF ANESTHESIA

Student Admission Handbook

September 2023

Welcome to Anesthesia program at DDU



Anesthesia Student Admission Handbook

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Anesthesia Student Admission Handbook

1. Introduction

Welcome to the Anesthesia Department at Dire Dawa University's College of Medicine and Health Science (CMHS) in Ethiopia. This handbook is designed to provide you with essential information about our Bachelor of Science (B.Sc.) program in Anesthesia. In a rapidly evolving educational landscape, where frequent changes and advancements in anesthesia/education are prevalent, we are committed and ready to prepare graduates who are well-equipped, task-oriented, and ready to meet the requirements of the profession.

2. Recent Educational Changes

The Ethiopian Ministry of Education has introduced an exit exam for all undergraduate programs, starting from the academic year 2022/2023. This initiative aims to enhance the quality of graduates and align educational outcomes with the national roadmap from 2018 to 2030. Additionally, the Federal Ministry of Health has developed a nationally harmonized competency-based curriculum for generic anesthesia programs within the Bachelor of Science (B.Sc.) framework. This curriculum encompasses general education, biomedical sciences, social/population health, and clinical/anesthesia modules.

3. About the Department

3.1. History

The Department of Anesthesia, part of the College of Medicine and Health Sciences (CMHS) at Dire Dawa University (DDU), commenced its teaching operations in 2006 E.C. It welcomed its first cohort of 31 students in the regular program in 2006. To date, 126 competent anesthesia professionals have graduated.

3.2. Quality Assurance

Quality is paramount in our department's activities, encompassing teaching and learning, research, and community service that align the department with its program vision, mission, and objectives.

Student Admission are based on the MoE, DDU, and ETA guide for health science criteria

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Student admission process as follows:

- **Orientation:** We inform new students about our programs during orientation.
- **Student Handbook:** We provide a handbook outlining our selection criteria for students.
- **Student Voting:** Students choose their preferred department, followed by exams.
- **Selection:** department creates its own exam questions, and scores determine admissions.
- **Admission:** Top-scoring students, based on department quotas, gain admission.

Appeal Mechanism: If you have concerns about the process, you can appeal:

- First, consult the Department Council (DC).
- If needed, contact the college's dedicated appeals office in person or in writing.
- For further assistance, visit the university registrar's office
- The academic vice president office
- The student union in the university with concerned body
- External help is an option too.

Contact Information: For further inquiries, please contact the Department of Anesthesia at Dire Dawa University (DDU), Ethiopia, Email: amelmasin.faris@ddu.edu.et
https://www.ddu.edu.et/Colleges/mdcn_view/6,



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3.3. Department Organogram

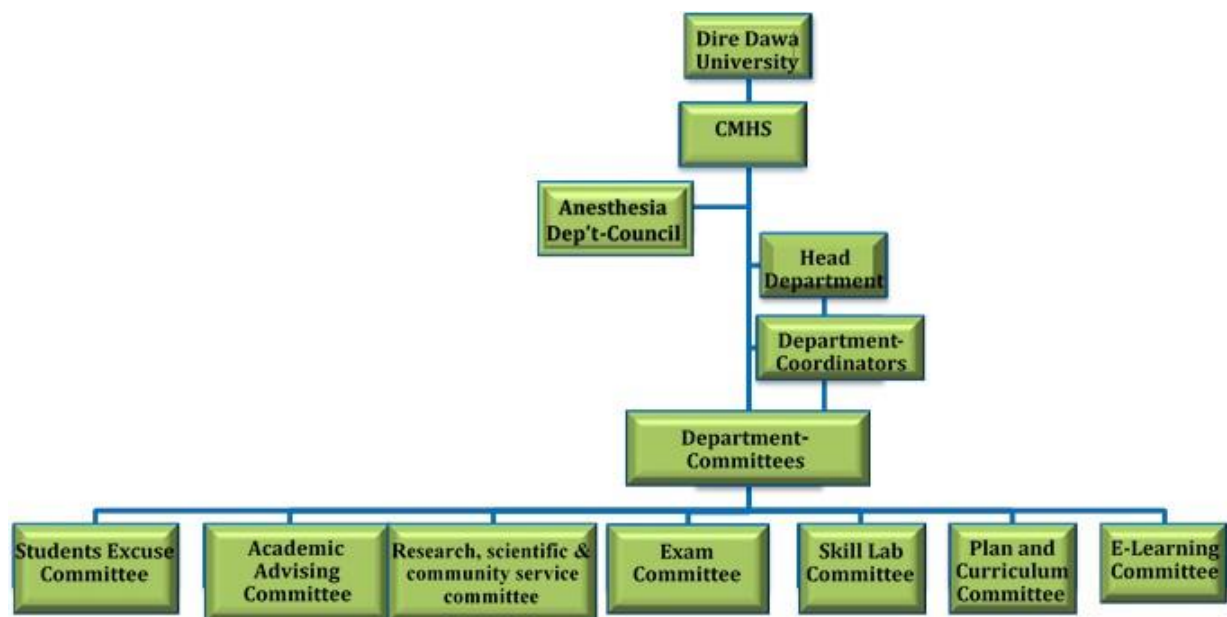


Figure 1: Organogram, 2023.

4. The Program

4.1. University Vision

Dire Dawa University aspires to become a premier choice in Ethiopia and rank among the top ten Applied Science Universities in Africa by 2030.

4.2. Program Vision

In alignment with the university's vision, the vision of the anesthesia program is to enhance community healthcare and meet the anesthesia service needs of the country. We aim to achieve this by producing qualified anesthetists capable of managing new techniques for all general and specialty surgeries, adhering to international standards.

4.3. Program Mission

Our department's ultimate goal is to produce highly competent anesthesia professionals. These professionals should possess the knowledge, clinical skills, attitudes, and critical thinking abilities necessary to deliver comprehensive anesthesia services within their professional scope. Additionally, our program is committed to serving the community through problem-solving research, clinical services and health promotion services.

4.4. Core Values



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Our program is guided by a set of core values, including:

- Pursuit of truth and freedom of expression.
- Institutional reputability based on successful accomplishment of the mission.
- Competitiveness in scholarship and cooperation with other institutions.
- Institutional autonomy with accountability.
- Participatory governance and the rule of law.
- Justice and fairness.
- A culture of fighting corruption.
- Quality and speedy service delivery.
- Economical use of resources and effective maintenance of assets.
- Recognition of merit and diversity.
- Democracy and multiculturalism.

(Source: Senate Legislation of DDU, page 10)

4.5. Curriculum Objectives

The Anesthesia Department at DDU implements a nationally harmonized competency-based curriculum for generic anesthesia programs (Bachelor of Science (B.Sc.)) in Ethiopia. The objectives of the curriculum, as of 2022, include:

General Objective

To produce competent anesthesia professionals capable of providing the full scope of anesthesia services, as defined by the professional scope of practice. These professionals should possess good knowledge, clinical skills, attitudes, and critical thinking abilities.

Specific Objectives

The curriculum is designed to:

- Equip anesthesia professionals with solid knowledge of biomedical science, clinical, and public health practice.
- Prepare anesthesia students to assess and optimize patients with comorbidities for surgery and anesthesia.
- Train anesthesia students to provide individualized anesthesia clinical care using an individualized anesthesia management plan.
- Equip anesthesia students to manage patients with multiple coexisting diseases using existing scientific knowledge.
- Enable anesthesia students to practice professionally on all levels of anesthesia clinical care settings.



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- Train anesthesia students in developing professional communication skills in dealing with patients, patient families, and other health professionals.
- Prepare anesthesia students to participate in conducting and utilizing relevant research findings.
- Train anesthesia students to apply evidence-based anesthesia clinical care practice.
- Equip anesthesia students with practical skills based on a theoretical foundation.
- Develop leadership and management skills in anesthesia students.
- Foster critical thinking and decision-making skills that lead to reflective and responsible practice in anesthesia.
- Provide knowledge and skills in emergency and critical care to handle critically ill patients.
- Prepare anesthesia students for post-graduate studies.

By adhering to these objectives, our program strives to produce anesthesia professionals who are ready to contribute effectively to the healthcare industry.

5. Admission Policies and Procedures

In our commitment to providing transparency and equal opportunity, the Anesthesia Department at Dire Dawa University has established comprehensive policies and procedures for student admissions. These policies ensure fairness and the inclusion of all qualified applicants. Below are the key aspects of our admission policies and procedures: Student admission practices for the program are clear, explicit and fair, and in accordance with the HEI's, and DDU policies and regulations.

The program ensures the clarity and fairness of student selection and admission criteria by several mechanisms:

1. Students are given exclusive orientation about the programs during the induction.
2. Different manuals and information will be provided to students through different ways: admission handbook, DDU(https://www.ddu.edu.et/Colleges/mdcn_view/6), and departments websites, Telegram page, and curriculum will be given to the students.

The student voting process:

1. choice of the students by himself
2. Take the entrance exam prepared by department & score set points

Then exam will be prepared by Anesthesia departments and will be compiled.

The students who get the highest number of grades depending on the quota of the department, will be admitted to the department.



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The size of student intake capacity

- A. The department council (DC) has the right to determine acceptable No of students.
- B. The student intake is also expressed in the programs annual plan, which guides the departments activity for the year.
- C. available resources are determinant for deciding the capacity of intake these are
 - 1. numbers of staff required
 - 2. The presence of teaching hospital and clinical case flow
 - 3. The availability of university resources like class rooms, offices, library, skill lab and accommodation.
 - 4. The number of students also reviewed by collage quality and monitoring office

Transfer of students in between departments

- 1. presents an application stating convincing reason(s) for requesting the transfer and a letter in support of the desired transfer from a sponsor where applicable; and
- 2. satisfies the academic requirements for admission into the program to which transfer is sought and the approval of the concerned DGCs and ACs has been obtained; and
- 3. The students are not dismissed from any program whom they are attending
- 4. The students have not completed more than one fourth of the originally joined program (50% of the course/module)

5.1. DDU Student Service:

Dire Dawa University (DDU) provide its student services with the principles and guidelines outlined by the Ethiopian Federal Ministry of Education (MoE) to ensure equitable and quality support for all students. These services are designed to foster academic success, personal well-being, and inclusivity while meeting the standards required under national policies such as the Higher Education Proclamation No. 1152/2019 and Proclamation No. 1263/2021, which emphasize access, quality, and accountability in higher education <https://moe.gov.et/>.

Dining Services: the Office recognizes feedback from students regarding the need for more variety and enhanced food quality in some. This demonstrates the office's commitment to ensuring that dining services meet the highest standards of quality and student satisfaction.

In alignment with the MoE's emphasis on promoting student well-being, DDU dining facilities that provide balanced meals essential for students physical and mental health. These services reflect the Ministry's focus on enhancing students' living conditions and creating conducive environments for academic achievement. Meals are served, ensuring accessibility to diverse food options that cater to different dietary needs.

Dormitory Services



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DDU-Dormitory services are in the main campus, overseen by the Student Services Office, have been providing a living-learning environment that fosters both academic success and community engagement. DDU dormitories are equipped with internet and lounges operating 16 hours daily, supporting academic and social interaction.

DDU's facilities uphold the national policy directive to create supportive living-learning environments. The dormitories are equipped with internet and lounges, operating for extended hours to support students' academic and social needs. These services align with MoE's mandate, ensuring students from diverse backgrounds have a secure and supportive place to live and study. The university also promotes mutual respect and cooperation among students, addressing challenges related to communal living through dormitory staff support. This focus on maintaining harmony reflects the Ethiopian government's emphasis on inclusivity and equity in education <https://moe.gov.et/>.

Health Services

Health services provided by DDU, through the Student Clinic, emphasize the importance of preventative care and medical attention. The health services at DDU are per the MoE's emphasis on preventive care and student well-being. The Student Clinic provides comprehensive health services, including reproductive health, counseling, STI management, and routine medical care. Referral partnerships with local hospitals, such as Dil-Chora Referral Hospital, ensure students requiring advanced care receive it without financial burden, fulfilling the Ministry's directive to reduce barriers to healthcare access. These partnerships, facilitated by the Student Services Office, ensure that students requiring advanced medical care can access it without financial burden.

Financial and Cost-Sharing Services

The Student Finance and Cost Sharing Office, under the oversight of the Student Services Office, provides essential support to students navigating the financial aspects of university life. This office serves as a reliable resource for information on dining, dormitory, and other shared costs, helping students manage their expenses effectively.

To further streamline services, the office has introduced workshops and informational sessions, ensuring that students are well-informed about their financial responsibilities. These efforts reflect a proactive approach to reducing financial stress and promoting focus on academic goals.

Disability Support

Inclusivity is a core value of DDU, and the Student Services Office is committed to supporting students with disabilities. Services include accommodations/ dormitories, academic, and access to resources.



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Students are encouraged to disclose their needs during the application process and upon arrival, allowing the office to allocate appropriate support promptly.

Student Services Office: Continuous Improvement and Responsiveness

The Student Services Office plays an active role in addressing student concerns and improving service delivery. Through regular surveys, focus groups, and direct feedback mechanisms, the office ensures that student inform decision-making processes. Initiatives such as increasing staffing in dormitories, expanding menu reviews in dining halls, and enhancing accessibility measures reflect the office's dedication to continuous improvement.

The services provided to Student by Office at DDU exemplify the university's commitment to holistic student support. By responding to feedback and implementing targeted improvements, the office ensures that its offerings remain relevant and effective. These efforts contribute significantly to the university's goal of creating an environment where students can thrive academically, socially, and personally.

Important links to access at DDU Digital Libraries

- Library Catalog <http://opac.ddu.edu.et>
- Digital Library <http://dls.ddu.edu.et>
- Institutional Repository (ETD) <http://ir.ddu.edu.et>
- National Academic Digital Library of Ethiopia <http://ndl.ethernet.edu.et>
- National Academic Digital Repository of Ethiopia <https://nadre.ethernet.edu.et/>

DDU MAP: Dire Dawa University is found in the industrial and commercial city of Dire Dawa, which is located at 515 km east of Addis Ababa. It is a young higher education institution, established and started its teaching and learning activities.

5.3. Admissions Standards

We adhere to Federal MoE, DDU senate, and Anesthesia curriculum admissions standards to ensure that our students are well-prepared for the demands of the anesthesia program.

5.4. Priority System

A priority system is in place to address specific admissions criteria and requirements.

5.5. Diversity

We aim to foster diversity within our student body, to ensure representation from various



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backgrounds.

5.6. Admissions Requirements for Anesthesia Students

Eligible and applicants must meet specific requirements outlined in our admissions criteria.

5.7. Student Admission Process

The admission process is designed to be fair and transparent. It includes:

- Application submission and evaluation.
- Selection based on criteria.
- Notification of admission status.
- Registration and enrollment.

1. Fields of Work and Expected Profile of Graduates

Upon completing our program, graduates can expect to excel in various fields within the anesthesia profession. They will possess a wide range of skills and competencies, including:

- Comprehensive pre-anesthesia patient assessment.
- Patient preparation and optimization for surgery and anesthesia.
- Effective use of anesthesia equipment and monitoring devices.
- Application of standard safety measures for perioperative hazards.
- Management of patient airways using different modalities.
- Anesthesia management for various surgical procedures.
- Postoperative care and pain management.
- Critical care and life support.
- Professionalism in anesthesia practice.
- Research and evidence-based practice.
- Quality improvement and assurance.

2. Conditions for Admission to the Program

Our admission requirements ensure that eligible students are well-prepared for the demands of the Anesthesia program. To be considered for admission, you must meet the following criteria:

A. University Admission Requirements for New Students:

- Completion of grade 12 with a focus on natural science subjects.
- Approval from the Ministry of Education (MoE) in the form of a grade 12 national certificate.
- Selection of the anesthesia profession.



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- Medical fitness, both mentally and physically.
- Fulfillment of any additional conditions determined by the University Council and announced during the application process.
- No prior dismissal from another university for disciplinary reasons.
- Ethiopian citizenship or eligibility for scholarships.

B. Conditions for Admission to the Program:

Admission to the Anesthesia program follows criteria set by the Ministry of Education. Special provisions may be made for student choice, female students, and scholarships. The placement criteria are based on:

- Cumulative performance in the first semester of freshman courses.
- Competitive program choice using grades as a measure.
- Specific entrance requirements and any disclosed physical disabilities preventing students from pursuing studies in their respective disciplines.

3. Study System in the Program

8.1. Duration of Study

The Anesthesia program follows a year-based study system divided by the semester system, that the duration of the study for the B.Sc. in Anesthesia program has been adjusted to four and a half years (4.5 years) in the Competency based Anesthesia curriculum 2022.

8.2. Attendance

- Mandatory 100% attendance in all teaching-learning activities, including skill labs and clinical practice.
- Students are not allowed to miss more than 20% of lecturer class hours relative to the total course credit hours.
- Compulsory attendance at both theoretical and practical teaching sessions throughout the course.

8.3. Progression and Promotion

- Transition to the next academic year occurs after successfully passing courses in each academic semester.
- Promotion assessments are conducted at the end of each academic year.
- A pass mark of at least a C grade is required for various modules.
- Remedial exams are allowed for specific cases.

8.4. Completion of the Program or Graduation Requirements



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To graduate, students must meet specific requirements, including:

- Completion of all required courses/modules totaling 328 ECTS.
- Attainment of a minimum grade of 'C' in all courses.
- Cumulative grade point average (CGPA) of ≥ 2.00 .
- Procedures for repeating courses and academic progression.

4. Registration Rules

Registration rules for the program include:

- Students can select and register for courses before the beginning of the semester.
- Options to delete courses within specified periods.
- Minimum and maximum credit hours for full-time students.
- Registration guidance from academic advisors.

5. Conversion Rules

Students may transfer to and from the Department of Clinical Anesthesia based on specific criteria and guidelines.

6. Academic Warning and Dismissal of the Program

Academic performance is closely monitored, and students who receive consecutive warnings may face dismissal.

7. Periodic and Examination

Periodic assessments and examinations are an integral part of the program and include Written exam, Morning, OSCEs oral exams..... and etc.

8. Contact Information

For further inquiries or assistance, please contact the Department of Anesthesia at DDU

Email: amelmasin.faris@ddu.edu.et

Dire Dawa University (DDU)

We wish you a successful and fulfilling academic journey at Dire Dawa University's Anesthesia Program. If you have any questions or need assistance, please do not hesitate to reach out using the address provided.

References:

1. Competency-based curriculum for Bachelor Degree of Science in Anesthesia of 2022, Addis Ababa, Ethiopia
2. Dire Dawa University Senate Legislation Guidelines, April 2019. And Dire Dawa University Annual Bulletin, 2020.
3. Dire Dawa University strategic plan, and Dire Dawa University Website, www.ddu.edu.et
4. Higher Education policy and strategy, December 2020.
5. Web-page: https://www.ddu.edu.et/Colleges/mdcn_view/6
DDU home page: <https://www.ddu.edu.et/Home>
CMHS page: <https://www.ddu.edu.et/Colleges/mdcn>
Registrar and Alumni page: <https://www.ddu.edu.et/Home/registrar>



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Student services page: https://www.ddu.edu.et/Home/student_service

Library: https://www.ddu.edu.et/home/library_service

★ Join and consider your future career in Anesthesia!

Why Choose Anesthesia Studies?

🛡️ **Crucial Role:** Anesthesia is the backbone of modern medicine, enabling patients to undergo surgery and procedures with minimal discomfort while prioritizing patient safety.

Anesthesia is a medical procedure that involves the use of different drugs to induce controlled and reversible loss of consciousness/amnesia, hypnosis, sensation, analgesia and muscle relaxation during surgical or medical, & diagnostic procedures.

Anesthesiology/Anesthetist are who specialize in anesthesia to manage the perioperative patient's medical, diagnostic, and surgical procedures.

🔑 **Types of Anesthesia You'll Master:**

- 1️⃣ **General Anesthesia:** Induce deep unconsciousness, ensuring patients are free and unaware during procedures, and used mostly for major surgeries. This type of anesthesia involves the administration of d/t drugs that cause the patient to become completely unconscious, with no awareness or memory of the procedure.
- 2️⃣ **Regional Anesthesia:** This type of master anesthesia techniques like Spinal, Epidural, & Caudal Anesthesia. With this type of anesthesia management's patients remain conscious but are free from pain and discomfort.
- 3️⃣ **Local Anesthesia:** This type of anesthesia involves the injection of drugs directly into the area specific procedures, such as a dental or minor surgical procedures... Patients remain conscious but feel no pain in the targeted area.
4. 🚰 **Advanced Monitoring Techniques:** Learn the art of anesthesia, in managing patient well- being throughout surgeries and medical procedures.

Your Journey to Becoming an Anesthesia Professional:

📖 **Comprehensive Education:** Receive in-depth theoretical knowledge, and hands-on training in anesthesia techniques.

👩‍🏫 **Learn from experienced anesthetists** who are passionate about teaching and patient care.

🏥 **Clinical Experience:** Gain real-world experience in hospitals, in the community, and campus facilities, ensuring you're well-prepared for your career.

🚀 **Career Opportunities:** Step into a high-job opportunities and potential for specialization.