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**Curriculum**

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| **Program** | | **Geography** | |
| **Degree awarded** | | **Bachelor of Science (BSc) in Geography** | |
| **Faculty** | | **Faculty of Exact and Natural Sciences** | |
| **Program coordinator/coordinators** | | **Dali Mikautadze** – Associated Professor | |
| **Length of the program (semester, ECTS)** | | **4 year / 8 semesters / 240 credits**  Basic (Major) Programme – 180 cr.  Minor Program/Free credits – 60 cr. | |
| **Language of the Program** | | | **Georgian** |
| **Program development and renewal date of issue** | | | The Accreditation Decision #40, 23.09.2011  Faculty of Exact and Natural Sciences Board protocol №7; 25.04.2011  Academic Board protocol №1 (11/12) 31.08.2011;  Faculty Board Protocol #8, 24.05.2012  Academic Board protocol #17, 25.05.2012  Faculty Board Protocol #3, 16.05.2014  Faculty Board Protocol #12, 15.06.2016  Academic Board protocol #2, (15/16) 22.09.2016  Faculty Board Protocol #1, 11.09.2017  Academic Board protocol #1 (17/18) 15.09.2017 |
| **Program prerequisites** | | | |
| **-** **-** Certificate of general education;  **-**  Certificate of confirmation of passing the unified national exams;  For International Students/ non-citizens of Georgia  – secondary or equivalent education in a foreign country; certificate of confirmation of passing the unified national exams;  - Certificate recognized under inter-country agreement | | | |
| **Aim of the Program** | | | |
| Bachelor Degree Program in Geography aims at preparing quailified professionals who will be able to study analyse the ongoing processes in natural and public systems; they will be able to collect, generallise and present scientific and statistical data obtained during field work. | | | |
| **Learning outcomes (the map of competences):** | | | |
| **Knowledge and understanding** | A student   * Understands the processes taking place in geo-systems of the earth and their impact in space and time; * Understands peculiarities of social, economic, physical and geographic processes on local and regional levels; * Observes natural environment and percieves the processes going there; * Knows field-work rules and maintains security; * Makes right use of geographical terminology. | | |
| **Applying knowledge** | * Independently researches materials for general geographical science (including internet and field work); collects, generalizes, elaborates, documents and reports them. * Has space orientation during field work using topographic maps and other facilities; * Defines opportunities of geographical sciensce application and its role in the society; * Applies quantitative, statistical and cartography methods to review social systems; * Is able to read and interpret cartographical material;   Applies rules of field-work including safety guidlines. | | |
| **Making judgement** | A student is able   * To have deep field knowledge and understanding * To identify problem, to highlight it and to make decision; * To take information from different sources, to elaborate, analyze and interpret data. | | |
| **Communication skills** | A student   * Is able to communicate orally and in written form in native language * Elaborates and generalizes material, and presents the results; * Knows and applies IT and communication technologies to communicate with the audience. | | |
| **Learning skills** | A student   * Is able to manage time to get to the goals; * Is able to learn and regularly upgrade; * Is able to work independently; * Is able to work in a group. | | |
| **Values** | A student will have:   * Ability of critical thinking and self-criticism; * Ability to stand for professional values in different situations; * Ability to independently apply wide range of knowledge and practice; * Ability to evaluate his/her own and others professional motivation; * Ability to be responsible for the safety of the environment. * Ability to understand ethical norms | | |
| **Teaching methods** | | | |
| Following methods are applied: Verbal, writing, cartographic, demonstrating, field-work, group-work, cooperative teaching, brainstorming, analysis and synthesis. | | | |
| **Structure of the Program** | | | |
| **4 year / 8 semester / 15 weeks per semester**  The program covers 180 credits of major and 60 credits of minor courses equaling a total of 240 credits. Major course combines: compulsory university courses: Foreign Language 1, 2, 3 (15 credits), elective faculty courses (20 credits), compulsory courses of specialization (120 credits) and elective specialization courses (20 credits); free course (5 credits).  ATSU faculty of Exact and Natural Sciences Department of Biology implements the program.  **See Appendix 1.** | | | |
| **Assessment System** | | | |
| Final assessment of a student is obtained from the add-up of mid-term and final exams throughout the semester. The educational course has a grading scale of 100 points. The student has the right to take the final exam, if his/her minimum competency equals 18 points.Minimum margin of assessment received by the student on the final exam is 15 points. Below than this, is assessed with FX (fail).  Evaluation System includes:  A. Five Forms of Positive Assessment:  (A) Excellent – 91 – 100 points  (B) very good – 81-90 points  (C) good – 71-80 points  (D) satisfactory – 61-70 points  (E) sufficient – 51-60 points  B. Two Forms of Negative Assessment:  (FX) (Administrative Fail in Course for Grade/could not pass) – A student gets 41-50 points from maximum evaluation which means that s/he is required to work more for passing the exam, and that s/he is entitled to take a make-up exam only once through personal study  (F) (Academic Fail) – A student gets 0 – 40 points from maximum evaluation; it means that the work done by him/her is not sufficient and she/he has to retake the course.  According to educational component of educational program, in case of adoption of FX, a makeup exam will be appointed no less than 5 calendar days after the conclusion of the final exam results.  The number of points received in the make-up final exam, is not added to the final assessment received by the student.  According to the assessment 0-50 points received from the make-up final exam, in the final evaluation of the educational component, the student will receive a grade of F-0.  (Midterm and final exams take place in exam center of ATSU)  Specific assessment criteria are outlined in the syllabus of the relevant academic course. | | | |
| **Employment opportunities** | | | |
| After the completion of the program geographers can be employed in  educational and scientific organizations;  environmental protection and natural resource agencies;  ministries of Defense and Agriculture;  Planning and Tourist agencies;  Hydro meteorological, weather forecasting and other types of monitoring services.  After graduation from bachelor degree student can apply graduate programs in geography, biology and other related specializations at any universities. | | | |
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**Curriculum 2017-2021**

**Programme: Geography**

**Qualification: Bachelor of Natural Science in Geography (BSc in Geography)**

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| № | Course | Contact hrs. per week | Credit Number | The number of hours | | | | Lectures/practical/group work/laboratory | Semester | | | | | | | | Precondition |
| Total | Contact | | Independent | I | II | III | IV | V | VI | VII | VIII |
| Auditory | Midterm and final exam |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 1 | **University Compulsory (15 ECTS)** | | | | | | | | | | | | | | | | |
| I.1 | Foreign Language-1 | 3 | 5 | 125 | 60 | 3 | 62 | 0/4/0/0 | 5 |  |  |  |  |  |  |  |  |
| I.2 | Foreign Language -2 | 3 | 5 | 125 | 60 | 3 | 62 | 0/4/0/0 |  | 5 |  |  |  |  |  |  |  |
| I.3 | Foreign Language -3 | 3 | 5 | 125 | 60 | 3 | 62 | 0/4/0/0 |  |  | 5 |  |  |  |  |  |  |
| **Total** | | **9** | **15** | **375** | **180** | **9** | **186** | **-** |  | | | | | | | |  |
| 2 | **Faculty Compulsory Courses (10 ECTS)** | | | | | | | | | | | | | | | | |
| 2.1 | Calculus | 3 | 5 | 125 | 60 | 3 | 62 | 2/2/0/0 | 5 |  |  |  |  |  |  |  | - |
| 2.2 | Computer Skills | 4 | 5 | 125 | 60 | 3 | 62 | 2/0/2/0 | 5 |  |  |  |  |  |  |  | - |
| **Total** | | **7** | **10** | **250** | **120** | **6** | **124** | **-** |  | | | | | | | |  |
| 3 | **Faculty Elective Courses (15 ECTS– 3 courses)** | | | | | | | | | | | | | | | | |
| 3.1 | Introduction to Physics | 3 | 5 | 125 | 45 | 3 | 77 | 2/1/0/0 | 5 |  |  |  |  |  |  |  | - |
| 3.2 | Introduction to Chemistry | 3 | 5 | 125 | 45 | 3 | 77 | 2/0/1/0 | 5 |  |  |  |  |  |  |  | - |
| 3.3 | Introduction to Biology | 3 | 5 | 125 | 45 | 3 | 77 | 2/1/0/0 | 5 |  |  |  |  |  |  |  | - |
| 3.4 | Introduction to Geography | 3 | 5 | 125 | 45 | 3 | 77 | 2/1/0/0 | 5 |  |  |  |  |  |  |  | - |
| 3.5 | Basics of Programming | 3 | 5 | 125 | 45 | 3 | 77 | 2/1/0/0 | 5 |  |  |  |  |  |  |  | - |
| **Total** | | **9** | **15** | **375** | **135** | **9** | **231** | **-** |  | | | | | | | | |
| 4 | **Specialization Compulsory Courses (115 ECTS)** | | | | | | | | | | | | | | | | |
| 4.1 | General Earth Studies | **3** | 5 | 125 | 45 | 3 | 77 | 2/1/0/0 |  | 5 |  |  |  |  |  |  | - |
| 4.2 | Topography - Geodesy | **3** | 5 | 125 | 45 | 3 | 49+24 | 2/1/0/0 |  | 5 |  |  |  |  |  |  | - |
| 4.3 | Meteorology - climatology | **3** | 5 | 125 | 45 | 3 | 49+24 | 2/1/0/0 |  | 5 |  |  |  |  |  |  | - |
| 4.4 | General Geology | **3** | 5 | 125 | 45 | 3 | 49+24 | 2/1/0/0 |  | 5 |  |  |  |  |  |  | - |
| 4.5 | Soil Geography | **3** | 5 | 125 | 45 | 3 | 49+24 | 2/1/0/0 |  | 5 |  |  |  |  |  |  |  |
| 4.6 | General Hydrology | **3** | 5 | 125 | 45 | 3 | 77 | 2/1/0/0 |  |  | 5 |  |  |  |  |  | 4.1 |
| 4.7 | General Geomorphology | **3** | 5 | 125 | 45 | 3 | 77 | 2/1/0/0 |  |  | 5 |  |  |  |  |  | - |
| 4.8 | Landscape Studies | **3** | 5 | 125 | 45 | 3 | 77 | 2/1/0/0 |  |  | 5 |  |  |  |  |  | 4.1 |
| 4.9 | Physical Geography of Georgia | **3** | 5 | 125 | 45 | 3 | 77 | 2/1/0/0 |  |  |  | 5 |  |  |  |  | - |
| 4.10 | Physical Geography of Continents and Oceans I | **3** | 5 | 125 | 45 | 3 | 77 | 2/1/0/0 |  |  |  |  | 5 |  |  |  | 4.1 |
| 4.11 | Inter-Zone Field-Practice | **3** | 5 | 125 | 45 | 3 | 77 | 2/1/0/0 |  |  |  | 5 |  |  |  |  | - |
| 4.12 | Introduction to Social and Economic Geography with Statistics | **3** | 5 | 125 | 45 | 3 | 77 | 2/1/0/0 |  |  |  | 5 |  |  |  |  | - |
| 4.13 | Biogeography | **3** | 5 | 125 | 45 | 3 | 77 | 2/1/0/0 |  |  |  |  | 5 |  |  |  | 4.8 |
| 4.14 | Geoformation systems | **3** | 5 | 125 | 45 | 3 | 77 | 1/2/0/0 |  |  |  |  | 5 |  |  |  | 2.2 |
| 4.15 | Natural Resources and Protection | **3** | 5 | 125 | 45 | 3 | 77 | 2/1/0/0 |  |  |  |  |  | 5 |  |  | - |
| 4.16 | Physical Geography of Continents and Oceans II | **3** | 5 | 125 | 45 | 3 | 77 | 2/1/0/0 |  |  |  |  |  | 5 |  |  | 4.10 |
| 4.17 | Complex Field Practice | **3** | 5 | 125 | 45 | 3 | 77 | 2/1/0/0 |  |  |  |  |  | 5 |  |  | - |
| 4.18 | Public Geography of World Regions and Countries | **3** | 5 | 125 | 45 | 3 | 77 | 2/1/0/0 |  |  |  |  |  |  | 5 |  | 4.12 |
| 4.19 | Recreational Geography | **3** | 5 | 125 | 45 | 3 | 77 | 2/1/0/0 |  |  |  |  |  |  | 5 |  | 4.15 |
| 4.20 | Social and Economical Geography of Georgia | **3** | 5 | 125 | 45 | 3 | 77 | 2/1/0/0 |  |  |  |  |  |  |  | 5 | 4.9 |
| 4.21 | Basics of Cave studies | **3** | 5 | 125 | 45 | 3 | 77 | 2/1/0/0 |  |  |  |  |  |  |  | 5 | 4.15 |
| 4.22 | Global World Problems | **3** | 5 | 125 | 45 | 3 | 77 | 2/1/0/0 |  |  |  |  |  |  |  | 5 | 4.15 |
| 4.23 | Geopolitics | **3** | 5 | 125 | 45 | 3 | 77 | 2/1/0/0 |  |  |  |  |  |  |  | 5 | 4.18 |
| **Total:** | | **69** | **115** | **2875** | **1035** | **69** | **1771** | **-** |  | | | | | | | |  |
| 5 | **Specialization Elective Modules (20 ECTS – 4 courses)** | | | | | | | | | | | | | | | | |
|  | **Elective Module - 1** | **3** | 5 |  |  |  |  |  |  |  |  | 5 |  |  |  |  | - |
| 5.1.1 | Paleogeography |  |  | 125 | 45 | 3 | 77 | 2/1/0/0 |  |  |  |  |  |  |  | - |
| 5.1.2 | Population Geography |  |  | 125 | 45 | 3 | 77 | 2/1/0/0 |  |  |  |  |  |  |  | - |
|  | **Elective Module – 2 5** | **3** | 5 |  |  |  |  |  |  |  |  |  | 5 |  |  |  | - |
| 5.2.1 | Basics of Tourism and Geography |  |  | 125 | 45 | 3 | 77 | 2/1/0/0 |  |  |  |  |  |  |  | - |
| 5.2.2 | Geography of Caucasus |  |  | 125 | 45 | 3 | 77 | 2/1/0/0 |  |  |  |  |  |  |  | - |
|  | **Elective Module – 3** | **3** | 5 |  |  |  |  |  |  |  |  |  |  | 5 |  |  | - |
| 5.3.1 | Natural Disasters in Georgia |  |  | 125 | 45 | 3 | 77 | 2/1/0/0 |  |  |  |  |  |  |  | - |
| 5.3.2 | Sustainable Ecological Development of Caucasus |  |  | 125 | 45 | 3 | 77 | 2/1/0/0 |  |  |  |  |  |  |  | - |
|  | **Elective Module – 4** | **3** | 5 |  |  |  |  |  |  |  |  |  |  |  | 5 |  | - |
| 5.4.1 | Geo Urbanistic Studies |  |  | 125 | 45 | 3 | 77 | 2/1/0/0 |  |  |  |  |  |  |  | - |
| 5.4.2 | Social and Economic Geography of Europe |  |  | 125 | 45 | 3 | 77 | 1/2/0/0 |  |  |  |  |  |  |  | - |
| **Total:** | | **12** | **20** | **500** | **180** | **12** | **308** | **-** |  | | | | | | | |  |
| 6 | **Free Credits ( 5 ECTS – 1 elective course)** | | | | | | | | | | | | | | | | |
| **Minor Credits** | | | **60** |  |  |  |  |  |  |  | **10** | **10** | **10** | **10** | **10** | **10** |  |
| **Total:** | | | **240** | **4500** | **1635** | **108** | **2757** | **-** | **30** | **30** | **30** | **30** | **30** | **30** | **30** | **30** |  |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Program Components** | | | | | | | | | | | | | | | | |
| **University compulsory courses (Foreign language)** | | **15** |  |  |  |  |  | **5** | **5** | **5** |  |  |  |  |  |  |
| **Faculty courses** | **Compulsory** | **10** |  |  |  |  |  | **10** |  |  |  |  |  |  |  |  |
| **Elective** | **15** |  |  |  |  |  | **15** |  |  |  |  |  |  |  |  |
| **Specialization courses** | **Compulsory** | **115** |  |  |  |  |  |  | **25** | **15** | **15** | **15** | **15** | **10** | **20** |  |
| **Elective** | **20** |  |  |  |  |  |  |  |  | **5** | **5** | **5** | **5** |  |  |
| **Free Credits** | | **5** |  |  |  |  |  |  |  |  |  |  |  | **5** |  |  |
| **Minor credits** | | **60** |  |  |  |  |  |  |  | **10** | **10** | **10** | **10** | **10** | **10** |  |
| **Total:** | | **240** |  |  |  |  |  | **30** | **30** | **30** | **30** | **30** | **30** | **30** | **30** |  |