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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, 23.09.2011Faculty of Exact and Natural Sciences Board protocol №7; 25.04.2011Academic Board protocol №1 (11/12) 31.08.2011; Faculty Board Protocol #8, 24.05.2012Academic Board protocol #17, 25.05.2012 Faculty Board Protocol #3, 16.05.2014Faculty Board Protocol #12, 15.06.2016Academic Board protocol #2, (15/16) 22.09.2016Faculty Board Protocol #1, 11.09.2017Academic 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.
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| **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.
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| **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.
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| **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.
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| **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 pointsB. 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** |  |