

## Architecture

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| <b>Name of the Educational Programme:</b> | <b>Architecture</b>   |
| <b>Awarded Qualification:</b>             | Bachelor of Architecture/არქიტექტურის ბაკალავრი   |
| <b>Credit Value of the Programme:</b>     | 240 ECTS  |
| <b>Language of Education:</b>             | Georgian  |
| <b>Programme Admission Preconditions:</b> | <ul style="list-style-type: none"> <li>• A person is eligible to enroll in a bachelor's program provided they have completed their general education, have a state-certified document that supports their eligibility, and their results from the unified national exams support their eligibility. A individual must go through administrative registration at International Black Sea University after being granted the right to study.</li> <li>• According to the Georgia Minister of Education and Science's decision of December 29, 2011 No224/N, those who are eligible may enroll in the university even if they do not pass the unified national exams. The aforementioned individuals are required to attest to their B2 proficiency in Georgian.</li> <li>• Students enrolled under the mobility rule, according to the order of the Minister of Education and Science of Georgia No. 10/N of February 4, 2010, "On approval of the procedure and fees for transferring from one higher educational institution to another."</li> <li>• A mandatory procedure for obtaining the right to enroll in an undergraduate educational program is a creative tour, which involves the submission of drawings made by the applicant, which are evaluated by experts/specialists in the field. The procedure and stages of the interview are described in the relevant regulation.</li> <li>• The student's enrollment in the undergraduate program is determined by the results of the unified national exams, in accordance with the Georgian legislative framework. One of the required disciplines to pass is Physics and Mathematics.</li> </ul> |
| <b>Purpose of the Programme:</b>          | <p>The architecture undergraduate education program's objectives:</p> <ol style="list-style-type: none"> <li>1. To prepare highly qualified personnel equipped with comprehensive theoretical and practical knowledge and skills for the profession of Architecture. This includes training students to understand the characteristics of the project area and existing construction regulations, thereby developing their ability to create professional architectural projects.</li> </ol>  |

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|  | <p>2. To provide students with knowledge of the theoretical aspects of the history of architecture; procedures necessary for the implementation of projects/concepts; and contemporary technologies and engineering issues in urban planning processes</p> <p>3. To train a specialist in the field in accordance with both local and international requirements and to equip them for further studies at the next level.</p>  |  |   |                      |   |
| <p><b>Learning outcome</b></p>             | <p>Upon successful completion of the architecture education program, graduates will develop the following general and sectoral competencies necessary for the specialty.</p> <table border="1" data-bbox="793 500 2041 1336"> <tr> <td data-bbox="793 500 989 987"> <p><b>Knowledge and understanding:</b></p> </td> <td data-bbox="989 500 2041 987"> <p>1. Describes the history and theory of architecture, including art, international architectural styles, aspects necessary for architectural design and design management of buildings, and the legal foundations of planning and construction.</p> <p>2. In the process of construction, realizes the special role of the architect's profession and the values and contexts related to the preservation and development of the environment in the field of urbanism.</p> <p>3. Thoroughly reviews and critically considers the legal procedures necessary for architectural projects, in accordance with the general principles of the global experience of architecture.</p> <p>4. Understands the public requirements following operational processes, the organization of construction, project area improvement and follows the professional ethics and legal regulations related to the mentioned field.</p> </td> </tr> <tr> <td data-bbox="793 987 989 1336"> <p><b>skills</b></p> </td> <td data-bbox="989 987 2041 1336"> <p>5. Analyzes the architectural features of the building, including planning principles, aesthetics, functional schemes and creates an architectural project through the urban planning context of the project area;</p> <p>6. considers the aesthetic and operational properties of constructions, modern technologies and materials, as well as transport, communication, technical and security systems;</p> <p>7. generates architectural ideas in a digital format using a variety of techniques, while illustrating constructions, technologies, materials, technical and safety systems.</p> <p>8. Collects data taking into account the interests of the customer, based on the analysis of which forms a professional substantiated conclusion.</p> </td> </tr> </table> | <p><b>Knowledge and understanding:</b></p> | <p>1. Describes the history and theory of architecture, including art, international architectural styles, aspects necessary for architectural design and design management of buildings, and the legal foundations of planning and construction.</p> <p>2. In the process of construction, realizes the special role of the architect's profession and the values and contexts related to the preservation and development of the environment in the field of urbanism.</p> <p>3. Thoroughly reviews and critically considers the legal procedures necessary for architectural projects, in accordance with the general principles of the global experience of architecture.</p> <p>4. Understands the public requirements following operational processes, the organization of construction, project area improvement and follows the professional ethics and legal regulations related to the mentioned field.</p> | <p><b>skills</b></p> | <p>5. Analyzes the architectural features of the building, including planning principles, aesthetics, functional schemes and creates an architectural project through the urban planning context of the project area;</p> <p>6. considers the aesthetic and operational properties of constructions, modern technologies and materials, as well as transport, communication, technical and security systems;</p> <p>7. generates architectural ideas in a digital format using a variety of techniques, while illustrating constructions, technologies, materials, technical and safety systems.</p> <p>8. Collects data taking into account the interests of the customer, based on the analysis of which forms a professional substantiated conclusion.</p> |
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|                                   | <p><b>Responsibility and autonomy:</b></p> <p>9. evaluates the technical, aesthetic and operational properties of the architectural project created by him/her;</p> <p>10. in the process of conducting construction-research works, adheres to the principles of professional ethics and creates an architectural project compatible with legal regulations;</p>   |
| <p><b>Evaluation Criteria</b></p> | <p>Study components considered by the program are carried out using the following learning methods/activities: Lecture/seminar, group work, practical/independent work, presentation, demonstration, induction, deduction, analysis, synthesis, case study, brainstorming, discussion/debate, simulation, role play, project, event plan, E-learning, problem-solving, focus groups, individual work, literature review, doing homework</p> <p>Student Knowledge Evaluation System:</p> <p>The goal of evaluation is to determine student's education results qualitatively in relation to academic program goals and parameters.</p> <p>Student may be assessed orally and/or in a written way. A student's knowledge and skills are assessed through 100 points grading system. It consists of midterm and final evaluations, sum of which makes up 100 points.</p> <p>The grading system allows:</p> <ul style="list-style-type: none"> <li>c) Five types of positive grades <ul style="list-style-type: none"> <li>1) (A) Excellent –91-100 points;</li> <li>2) (B) Very good – 81-90 points;</li> <li>3) (C) Good – 71-80 points;</li> <li>4) (D) Satisfactory – 61-70 points;</li> <li>5) (E) Acceptable – 51-60 points.</li> </ul> </li> <li>b) Two types of negative grades <ul style="list-style-type: none"> <li>1) (FX) Fail – 41-50 points, meaning that a student requires some more work before passing and is given a chance to sit an additional examination after independent work;</li> <li>2) (F) Fail – 40 points and less, meaning that the work of a student is not acceptable and he/she has to study the subject anew.</li> </ul> </li> </ul> <p>For the midterm and final evaluations minimal passing grade is set. The final evaluation minimal passing grade must not exceed 60% of final evaluation grade.</p> <p>Midterm and final evaluation grade distribution, their minimal competence levels and assessment criteria are described in the corresponding syllabus.</p> |

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|                             | <p>A credit can be awarded only after the attainment of learning outcomes, envisaged by the course syllabus and following requirements:</p> <ul style="list-style-type: none"> <li>e) Obtaining minimal competence levels set for midterm and final evaluations;</li> <li>f) Obtaining minimum 51 points out of 100 points of final grade.</li> </ul> <p>A student will be admitted to the additional exam if he scored 41 - 50 points out of a maximum of 100 points in the final assessment or at least 51 points, but did not pass the minimum competence limit defined for the final assessment.</p> <p>The format and evaluation criteria of the midterm and final assessment components are determined according to the syllabus/practice plan of each study course, taking into account their specificities and following the above criteria.</p> |
| <b>Field of Employment:</b> | <p>Graduates of the architecture educational program have the opportunity to be employed in both private and public organizations in the architectural sector (architectural design studios, construction companies, real estate agencies, municipalities), various business associations or public institutions. The field of employment can be: architectural design, urban planning, consulting, project management and other related areas.</p>  |

| # | Study course / module / practice / research component | status | Number of credits | Distribution of hours |             |              |             |            |             |              |               |         |                                       |                 |            |               | Independent work | total hours |  |
|---|---|--------|-------------------|-----------------------|-------------|--------------|-------------|------------|-------------|--------------|---------------|---------|---------------------------------------|-----------------|------------|---------------|------------------|-------------|--|
|   |   |        |                   | I year                |             | II year      |             | III year   |             | IV year      |               | contact |                                       |                 |            |               |                  |             |  |
|   |   |        |                   | I semester            | II semester | III semester | IV semester | V semester | VI semester | VII semester | VIII semester | lecture | seminar/group work/<br>practical work | midterm exam(s) | Final exam | total contact |                  |             |  |
|   |   |        |                   |                       |             |              |             |            |             |              |               |         |                                       |                 |            |               |                  |             |  |

| Free obligatory component |   |           | 20 ECTS |    |    |    |    |    |    |    |    |    |    |   |   |    |    |     |
|---------------------------|---|-----------|---------|----|----|----|----|----|----|----|----|----|----|---|---|----|----|-----|
| 1                         | academic writing                            | Mandatory | 5       | 5  |    |    |    |    |    |    |    | 14 | 14 | 2 | 2 | 32 | 93 | 125 |
| 2                         | Information technologies                    | Mandatory | 5       | 5  |    |    |    |    |    |    |    | 14 | 14 | 2 | 2 | 32 | 93 | 125 |
| 3                         | General English B2.1                        | Mandatory | 5       | 5  |    |    |    |    |    |    |    |    |    |   |   |    |    |     |
| 4                         | General English B2.2                        | Mandatory |         |    | 5  |    |    |    |    |    |    |    |    |   |   |    |    |     |
| II                        | <b>Mandatory component of the specialty</b> |           | 170     | 15 | 20 | 20 | 25 | 25 | 25 | 20 | 20 |    |    |   |   |    |    |     |
| 1.                        | ARC 1000 Mathematics                        | Mandatory | 5       | 5  |    |    |    |    |    |    |    | 14 | 14 | 2 | 2 | 32 | 93 | 125 |
| 2..                       | ARC 1001 Fundamentals of Geometric Modeling | Mandatory | 5       | 5  |    |    |    |    |    |    |    | 14 | 14 | 2 | 2 | 32 | 93 | 125 |

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|----|--|-----------|----|---|---|--|--|--|--|--|----|----|---|---|----|-----|-----|
| 3. | ARC 1002<br>Representational<br>Drawing                                    | Mandatory | 5  | 5 |   |  |  |  |  |  | 14 | 14 | 2 | 2 | 32 | 93  | 125 |
| 4. | ARC 1501 Architectural<br>Drawing  | Mandatory | 5  |   | 5 |  |  |  |  |  | 14 | 14 | 2 | 2 | 32 | 93  | 125 |
| 5. | ARC 1502<br>Fundamentals of<br>Architectural<br>Composition                | Mandatory | 5  |   | 5 |  |  |  |  |  | 14 | 14 | 2 | 2 | 32 | 93  | 125 |
| 6. | ARC 1503 Architecture<br>and Art (up to the 19th<br>century)               | Mandatory | 5  |   | 5 |  |  |  |  |  | 14 | 14 | 2 | 2 | 32 | 93  | 125 |
| 7. | ARC 1504 Geodesy   | Mandatory | 5  |   | 5 |  |  |  |  |  | 14 | 14 | 2 | 2 | 32 | 93  | 125 |
| 8. | ARC 2000 Architectural<br>Design I   | Mandatory | 10 |   |   |  |  |  |  |  | 30 | 58 | 2 | 2 | 92 | 158 | 250 |
| 9. | ARC 2001 Automated<br>Design Systems in<br>Manufacturing I<br>(ARCHICAD 1) | Mandatory | 5  |   |   |  |  |  |  |  | 14 | 14 | 2 | 2 | 32 | 93  | 125 |

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|-----|--|-----------|----|--|--|---|----|---|--|--|--|----|----|---|---|----|-----|-----|
| 10. | ARC 2002 Materials and Structures                                  | Mandatory | 5  |  |  | 5 |    |   |  |  |  | 14 | 14 | 2 | 2 | 32 | 93  | 125 |
| 11. | ARC 2500 Architectural Design II                                   | Mandatory | 10 |  |  |   | 10 |   |  |  |  | 30 | 58 | 2 | 2 | 92 | 158 | 250 |
| 12. | ARC 2501 Modernism in Architecture and Art                         | Mandatory | 5  |  |  |   | 5  |   |  |  |  | 14 | 14 | 2 | 2 | 32 | 93  | 125 |
| 13. | ARC 2502 Automated Design Systems in Manufacturing II (ARCHICAD 2) | Mandatory | 5  |  |  |   | 5  |   |  |  |  | 14 | 14 | 2 | 2 | 32 | 93  | 125 |
| 14. | ARC 2503 Architectural Physics and Building Technologies           | Mandatory | 5  |  |  |   | 5  |   |  |  |  | 14 | 14 | 2 | 2 | 32 | 93  | 125 |
| 15. | ARC 3000 Professional English                                      | Mandatory | 5  |  |  |   |    | 5 |  |  |  | 14 | 14 | 2 | 2 | 32 | 93  | 125 |
| 16. | ARC 3001 Fundamentals of the International Construction Code       | Mandatory | 5  |  |  |   |    | 5 |  |  |  | 14 | 14 | 2 | 2 | 32 | 93  | 125 |

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| 17. | ARC 3002 Architectural Design III  | Mandatory | 10 |  |  |  |  | 10 |  |  |  | 30 | 58 | 2 | 2 | 92 | 158 | 250 |
| 18. | ARC 3003 Architecture Today  | Mandatory | 5  |  |  |  |  | 5  |  |  |  | 14 | 14 | 2 | 2 | 32 | 93  | 125 |
| 19. | ARC 3500 Fundamentals of Urban Planning  | Mandatory | 5  |  |  |  |  | 5  |  |  |  | 14 | 14 | 2 | 2 | 32 | 93  | 125 |
| 20. | ARC 3501 Three-dimensional digital visualization of an architectural project (3Ds Max) | Mandatory | 5  |  |  |  |  | 5  |  |  |  | 14 | 14 | 2 | 2 | 32 | 93  | 125 |
| 21. | ARC 3502 Architectural Design IV   | Mandatory | 10 |  |  |  |  | 10 |  |  |  | 30 | 58 | 2 | 2 | 92 | 158 | 250 |
| 22. | ARC 3503 Practice  | Mandatory | 5  |  |  |  |  | 5  |  |  |  | 14 | 14 | 2 | 2 | 32 | 93  | 125 |



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| 23. | ARC 4000<br>Fundamentals of<br>Interior Design             | Mandatory | 5  |  |  |  |  |  | 5  |    | 14 | 14 | 2 | 2 | 32 | 93  | 125 |
| 24. | ARC 4001 Architectural<br>Design V                         | Mandatory | 10 |  |  |  |  |  | 10 |    | 30 | 58 | 2 | 2 | 92 | 158 | 250 |
| 25. | ARC 4002<br>Fundamentals of<br>Environmental Design        | Mandatory | 5  |  |  |  |  |  | 5  |    | 14 | 14 | 2 | 2 | 32 | 93  | 125 |
| 26. | ARC 4500<br>Fundamentals of<br>Sustainable<br>Architecture | Mandatory | 5  |  |  |  |  |  |    | 5  | 14 | 14 | 2 | 2 | 32 | 93  | 125 |
| 27. | ARC 4501 Labor Safety                                      | Mandatory | 5  |  |  |  |  |  |    | 5  | 14 | 14 | 2 | 2 | 32 | 93  | 125 |
| 28. | ARC 4502 bachelor's<br>projec                              | Mandatory | 10 |  |  |  |  |  |    | 10 | 14 | 14 | 2 | 2 | 32 | 93  | 125 |
| III | Elective component of the<br>specialty                     |           | 15 |  |  |  |  |  | 5  | 5  | 5  |    |   |   |    |     |     |

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|----|--|----------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------|----|---|---|----|----|-----|
| 1. | ARC 4003 Cultural Heritage   | Elevtive | 5          |           |           |           |           |           | 5         |           |           | 14             | 14 | 2 | 2 | 32 | 93 | 125 |
| 2. | ARC 4004 Buildings   | Elevtive | 5          |           |           |           |           |           | 5         |           |           | 14             | 14 | 2 | 2 | 32 | 93 | 125 |
| 3. | ARC 4004 Latest Structures   | Elevtive | 5          |           |           |           |           |           | 5         |           |           | 14             | 14 | 2 | 2 | 32 | 93 | 125 |
| 4. | Sociology  | Elevtive | 5          |           |           |           |           |           | 5         |           |           | 14             | 14 | 2 | 2 | 32 | 93 | 125 |
| 5. | Fundamentals of architectual project management  | Elevtive | 5          |           |           |           |           |           |           | 5         |           | 14             | 14 | 2 | 2 | 32 | 93 | 125 |
| 6. | ARC 4503 The street of the future in an urban context                                    | Elevtive | 5          |           |           |           |           |           |           | 5         |           | 14             | 14 | 2 | 2 | 32 | 93 | 125 |
| 7. | ARC 354 Social Sustainability  | Elevtive | 5          |           |           |           | 5         |           |           |           |           | 14             | 14 | 2 | 2 | 32 | 93 | 125 |
| IV | Free elective component/or additional educational program                                |          |            |           |           |           |           |           |           |           |           | <b>35 ECTS</b> |    |   |   |    |    |     |
|    | Any study course of the corresponding level of the university, subject to prerequisites. |          |            |           | 5         | 10        | 5         | 5         |           | 5         | 5         |                |    |   |   |    |    |     |
|    | <b>total</b>   |          | <b>240</b> | <b>30</b> | <b>30</b> | <b>30</b> | <b>30</b> | <b>30</b> | <b>30</b> | <b>30</b> | <b>30</b> |                |    |   |   |    |    |     |