Saint George University of Beirut
جامعة القديس جاورجيوس في بيروت

SGUB

Ref: SAO-1076/2507

Diploma Certificate

The Registrar of Saint George University of Beirut certifies that

Thea Wafic Abou Jneid

ID: 202200423

Born on November 30, 2004

Has been awarded, on June 16, 2025

The degree of

Bachelor of Science in Biology

This certificate has been issued to serve and to avail when and where required.

SGUE

Beirut, on July 9, 2025.

Michelle Harmouche
University Registrar

T: +961 1577 055 | E: registrar@sgub.edu.lb
A: Youssef Sursock Street - Rmeil, Beirut
P.O. Box: 16-5146 - Ashrafieh, Lebanon

www.sgub.edu.lb

Grading System

Undergraduate			
Grade	Description	Quality Point	Numerical Value/100
A	Outstanding	4.00	90-100
B+	Excellent	3.50	85-89
B	Very Good	3.00	80-84
C+	Good	2.50	75-79
C	Average	2.00	70-74
D+	Below Average	1.50	65-69
D	Poor	1.00	60-64
F	Fail	0	0-59
FW	Fail to Withdraw	0	0-59

Grades not included in the G.P.A calculation	
P	Pass
NP	No Pass
W	Withdrawal
I	Incomplete
IP	In Progress
AU	Audit
T	Transfer
G	Granted

Faculty of Medicine		
A Pass/Fail grading system for the Medical Education Program (Med I and Med II). An absolute percentile score is calculated at the end of each block or thread.		
P	Pass	A final grade of the block/thread above the mean minus one standard deviation.
PR	Pass with remediation	Received when the student gets a grade below mean minus one standard deviation in a block/thread.
F	Fail	Received after failing all remedial requirements.
W	Withdrawn	Received when a student is dropped from the program for academic reasons.
To be promoted, students must attain a grade of Pass in all blocks and threads.		

Attempted Credits
Credits for any course that the student has taken at our institution.

Total Credits
Any credit that will be counted towards the completion of a degree, including any transfer coursework.

Term Grade Point Average (GPA)
Calculated by dividing the sum of Quality Points (QPnts) by the sum of attempted credits.

Academic Standing
Undergraduate students must ensure a cumulative GPA of at least 2.00 to be in good academic standing (not under probation).

Credit System
One credit is equal to a 50- minute course per week.

Earned Credits
Credits for any course in which the student received a passing grade.

Transfer Credits
Any credits for coursework taken at another institution.

Cumulative Grade Point Average (GPA)
Calculated by dividing the sum of Quality Points (QPnts) by the sum of Earned credits.

Academic Calendar
Consists of Fall and Spring semesters of approximately 15 weeks each and an optional summer session of 7 weeks.

Language of instruction
English is the official language of instruction at SGUB.

Security features
1) The word "Copy" appears when photocopied
2) Embossed University seal
3) UV fibers

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Saint George University of Beirut
جامعة القديس جاورجيوس في بيروت

Student No: 202200423
Student Name: Thea Wafik Abou Jneid
Course Level: Undergraduate
Prev. Institution: College Notre Dame des Apôtres-Kob Elias

Date of Birth: 30-Nov-2004
Date Issued: 16-Jun-2025
Official Copy

Faculty: Arts & Sciences
Program: Bachelor of Science
Major: Biology
Degree Awarded Date: June 16, 2025

Course No	Course Title	Credits	Grade	QPts	R
BIOL 210	Biochemistry	3.00	B	9.00	
BIOL 321	Funtional Morphology	3.00	C+	7.50	
Earned Cr. 19.00	GPA Cr. 19.00	QPts 65.50	GPA 3.45		

Fall 2024-2025
Biology

BIOL 422	Mechanisms of Immunology	3.00	B+	10.50	
CHUM 201	Cultures & Humanities Exploration I	3.00	A	12.00	
COMM 344	Communication & Pres. Sk.	3.00	A	12.00	
ITEC 220	Potential & Implications of Artifi. Int.	1.00	P	0.00	
ITEC 280	Software Eng. Principles and Practice	4.00	B+	14.00	
STAT 202	Probability and Statistics	3.00	A	12.00	
BIOL 340	Medicine and Community I	1.00	P	0.00	
Earned Cr. 18.00	GPA Cr. 16.00	QPts 60.50	GPA 3.78		

Spring 2024-2025
Biology

ITEC 250	Introduction to Databases & BioInformat.	3.00	C	6.00	
BIOL 420	Cellular and Molecular Neurobiology	3.00	B+	10.50	
ITEC 299	IT Liability, Compliance & Risk Mngmt	3.00	C	6.00	
BIOL 430	BioEthics	2.00	A	8.00	
BIOL 421	Principles of Microbiology	3.00	B	9.00	

Course No	Course Title	Credits	Grade	QPts	R
CHUM 202	Cultures & Humanities Exploration II	3.00	A	12.00	
Earned Cr. 17.00	GPA Cr. 17.00	QPts 51.50	GPA 3.03		

TRANSCRIPT TOTALS :

	Earned Cr	GPA Cr.	QPts	GPA
Total Institution	108.00	106.00	360.00	3.40
Total Transfer	30.00	0.00	0.00	0.00
Overall	138.00	106.00	360.00	3.40

END OF TRANSCRIPT

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Student No: 202200423
Student Name: Thea Wafik Abou Jneid
Course Level: Undergraduate
Prev. Institution: College Notre Dame des Apôtres-Kob Elias

Date of Birth: 30-Nov-2004
Date Issued: 16-Jun-2025
Official Copy

Faculty: Arts & Sciences
Program: Bachelor of Science
Major: Biology
Degree Awarded Date: June 16, 2025

Course No	Course Title	Credits	Grade	QPts	R
TRANSFER CREDIT ACCEPTED BY THE INSTITUTION:					
2021-2022 Lebanese Baccalaureate					
BIOL 100	Introduction to Biology	4.00	G		
CHEM 100	Introduction to Chemistry	4.00	G		
ENGL 100	Remedial English I	3.00	G		
ENGL 101	Remedial English II	3.00	G		
HIST 105	History Elective	3.00	G		
MATH 101	Math I	3.00	G		
MATH 102	Math II	3.00	G		
PHIL 101	Introduction to Philosophy	3.00	G		
PHYS 100	Introduction to Physics	4.00	G		
Earned Cr. 30.00	GPA Cr. 0.00	QPts 0.00	GPA 0.00		
INSTITUTION CREDIT					
Fall 2022-2023					
BIOL 201	General Biology and Evolution	4.00	C+	10.00	
CHEM 201	General Chemistry	4.00	B+	14.00	
ENGL 200	Preparatory English	5.00	C+	12.50	
MATH 210	Calculus I	3.00	A	12.00	
ARAB 201	Academic Arabic	3.00	B+	10.50	
Earned Cr. 19.00	GPA Cr. 19.00	QPts 59.00	GPA 3.11		

Course No	Course Title	Credits	Grade	QPts	R
Spring 2022-2023					
BIOL 310	Molecular Genetics and Genomics	4.00	B	12.00	
ENGL 202	Academic English II	3.00	B	9.00	
CHEM 210	Organic Chemistry I	4.00	A	16.00	
MATH 201	Discrete Math	3.00	A	12.00	
PHYS 201	Physics I	3.00	A	12.00	
Earned Cr. 17.00	GPA Cr. 17.00	QPts 61.00	GPA 3.59		
Fall 2023-2024					
Biology					
ITEC 201	Fundamentals of Programming I	4.00	A	16.00	
CHEM 310	Organic Chemistry II	3.00	B	9.00	
BIOL 320	Cell Biology and Development	4.00	C+	10.00	
PHYS 202	Physics II	3.00	A	12.00	
PSYC 201	Introduction to Psychology	3.00	A	12.00	
CHEM 321	General Chemistry Laboratory	1.00	B+	3.50	
Earned Cr. 18.00	GPA Cr. 18.00	QPts 62.50	GPA 3.47		
Spring 2023-2024					
Biology					
ITEC 202	Fundamentals of Programming II	4.00	A	16.00	
BIOL 311	Molecular Genetics Laboratory	3.00	B+	10.50	
SOCI 201	Introduction to Sociology	3.00	B+	10.50	
PHYS 310	Physics Laboratory	3.00	A	12.00	

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رقم الترشيح: ٩٠٧٠٤



الجمهورية اللبنانية
وزارة التربية والتعليم العالي
المديرية العامة التربية
دائرة الامتحانات الرسمية

رقم الشهادة: ١٣٩٢١

إفادة نجاح
في امتحانات
شهادة الثانوية العامة
فرع علوم الحياة

إنّ المدير العامّ للتربية يثبت أنّ:

تيا وفيق ابوجنيد المولودة سنة ٢٠٠٤ في **خربة قنافار**،
قد فازت في امتحانات شهادة الثانويّة العامّة، فرع علوم الحياة، لدورة ٢٠٢٢ العاديّة
ونالت العلامات التالية:

المادّة	علامة المرشّح	العلامة القصوى
علوم الحياة	٧٣	٨٠
كيمياء	٥٥	٦٠
فيزياء	٤٧	٦٠
رياضيّات	٥٨	٦٠
لغة عربيّة وآدابها	٢٩	٤٠
لغة أجنبيّة أولى	٢١	٣٠
تاريخ	٢٩	٣٠
علامة الاستدراك	٠	
المجموع العامّ	٣١٢	٣٦٠

فقط ثلاث مئة واثنتا عشرة علامة

الدرجة جيّد جدّاً

بيروت في: ٢٠٢٢/٠٨/١٠

عن المدير العامّ للتربية
رئيسة دائرة الامتحانات الرسميّة بالتكليف
امل خليل شعبان

دائرة الإمتحانات الرسمية

20221409070400

الجمهورية اللبنانية
وزارة الداخلية
بطاقة هوية



الاسم: تيا
الشهرة: ابو جنيد
اسم الاب: وفيق
اسم الام وشهرتها: جوسلين الكوكباني

محل الولادة: خربة قنافار
تاريخ الولادة: ٢٠٠٤/١١/٣٠

٠٠٠٧٦٣٠٧٩٠١

توقيع صاحب العلاقة:

الجنس: أنثى
الوضع العائلي: عزباء

تاريخ الإصدار: ٢٠٢٤/٠٤/٣٠
فئة الدم: A+

رقم السجل: ٣٣
المحلة أو القرية: خربة قنافار
المحافظة: البقاع
القضاء: البقاع الغربي

اسم و توقيع و ختم مأمور النفوس



Course Description

Student ID #	**202200423**
Student Name	**Thea Abou Jneid**
Major	**Bachelor of Science in Biology**

Course Description

This course introduces students to the scientific study of the human mind and behavior. It develops a solid foundation for further exploration of specific areas of psychology. Various models upon which modern psychology has been built will be explored, including topics such as lifespan development, personality, learning, memory, sensation and perception, stress and health, psychological disorders, social psychology, and research methods.

Prerequisites: ENGL 201 or ≥ C grade in ENGL 200

SOCI 201 **Introduction to Sociology** **3.00**

This course provides an overview of Sociology as a secular discipline that explores social, religious, political, and economic issues in terms of social institutions, social forces, and group interactions. By so doing, this course explores different structures and combinations of social forces that influence the individual's social behavior, and renders students better qualified to become active citizens of the world.

Prerequisites: ENGL 201 or ≥ C grade in ENGL 200

STAT 202 **Probability & Statistics** **3.00**

This course provides an introduction to probability and statistics with applications. Topics include basic probability models, random variables, notions of sampling, hypothesis testing, discrete and continuous probability distributions, statistical estimation and testing, confidence intervals, and an introduction to linear regression.

Prerequisites: None

ITEC 280 **Requirements Engineering** **4.00**

This course offers an in-depth exploration of the requirements engineering cycle, guiding students through the systematic process of using various techniques and modeling tools to elicit, specify, validate, and document requirements to better inform system design and implementation.

Prerequisites: None

ITEC 299 **IT Liability, Compliance, and Risk Management** **3.00**

This course provides the general foundations of information technology risk management, ethics and their relation to cybersecurity, AI, its governance, compliance, and laws. Topics include domains of technology risk management, IT risk identification, IT risk assessment, risk mitigation, structure and content of a cybersecurity-related strategy, plans, and planning, key components and methodologies of policy development, and the role of performance measures.

Prerequisites: ITEC 201, ITEC 280

MATH 201 **Discrete Math** **3.00**

Discrete Mathematics is a branch of applied mathematics that deals with arrangements of discrete objects. Students will develop skills in applying fundamental mathematical principles, including logical reasoning, sets, relations and functions, propositional logic, and difference equations. The relevance of Discrete Mathematics to selected scientific and computing fields will also be explored.

Prerequisites: None

MATH 210 **Calculus I** **3.00**

This course covers topics that include Fundamentals of Calculus, Equations, Functions, Limits, Continuity, Differentiation with Addition to Integration Techniques, Improper Integrals, and Infinite series.

Prerequisites: None

PHYS 201 **Physics I** **3.00**

This course provides an introduction to mechanics. This includes motion in one dimension, motion in two dimensions, Newton's laws of motion, work and energy, conservation of energy, linear momentum and collisions, rotational motion, and fluid mechanics.

Prerequisites: MATH 210 (prerequisite)

PHYS 202 **Physics II** **3.00**

This course explores Oscillations and Mechanical Waves, Thermodynamics, and Electricity and Magnetism. Topics include Oscillatory Motion, Sound Waves, Temperature and the First Law of Thermodynamics, Electric Fields, Magnetic fields, and Electric Circuits.

Prerequisites: PHYS 201

PHYS 310 **Physics Laboratory** **3.00**

This course explores Electric Circuits, Light and Optics, and Modern Physics. Topics include Basic Laws of Electric Circuits, Techniques of Circuit Analysis, The Nature of Light and the Principles of Ray Optics, Image Formation, Introduction to Quantum Physics, Nuclear Structure and Applications of Nuclear Physics. These topics and others from PHYS 201 and PHYS 202 will be investigated using virtual and on-site laboratory experiments.

Prerequisites: PHYS 202

PSYC 201 **Introduction to Psychology** **3.00**

Course Description

ENGL 200 **Preparatory English** **5.00**

This course emphasizes listening, speaking, reading, writing and comprehension skills, and includes an in-depth investigation of the writing of short essays, documentation, sophisticated grammatical structures, and other rhetorical tools. Throughout the course, students will actively engage in communication and academic tasks, such as classroom discussions, debates, oral presentations, and formatted research papers.

Prerequisites: None

ENGL 202 **Academic English II** **3.00**

Building on the skills acquired in Preparatory English and Academic English I, this course is designed to expand students' understanding of key linguistic areas, with emphasis on reading comprehension and analysis, synthesis, critiquing, argumentation, and research techniques associated with academic work.

Prerequisites: ENGL 201 or ENGL 200

ITEC 201 **Fundamentals of Programming I** **4.00**

This course offers a first-level exploration of object-oriented programming with an emphasis on procedural abstraction, providing students with a solid understanding of programming concepts, problem-solving techniques, and algorithm development. Students will write, debug, and execute code in a high-level programming language, focusing on fundamental programming constructs such as variables, data types, arrays, conditionals, loops, methods, and files, Selected cybersecurity and ethical issues relevant to this course will be examined.

Prerequisites: None

ITEC 202 **Fundamentals of Programming II** **4.00**

This course provides a second-level exploration of object-oriented programming. Topics include using Swing, the Collections Framework, some basic data structures like stacks, queues, and binary trees, some basic algorithms related to sorting and searching, database connectivity, and an introduction to both basic and advanced design patterns. The course also covers some aspects of cybersecurity and ethics in computing.

Prerequisites: ITEC 201

ITEC 220 **Potential and Implications of Artificial Intelligence** **1.00**

The course explores the potential and implications of artificial intelligence (AI) across various fields, providing students with a broad understanding of its impact on society, ethics, and the future of work. Topics covered include machine learning, data analytics, AI applications in science, art, healthcare, finance, and ethical considerations. Through engaging lectures, guest speakers, and discussions, students develop critical thinking skills to analyze the benefits and risks of AI. This course prepares students for responsible and informed participation in an AI-driven world.

Prerequisites: None

ITEC 250 **Introduction to Databases and BioInformatics** **3.00**

This course covers effective database design principles, and mastery of complex SQL queries for efficient data manipulation with a focus on bioinformatics and medical databases. It integrates theoretical knowledge with hands-on practical exercises, ensuring students develop the necessary technical skills and the contextual understanding to effectively navigate diverse database challenges in bioinformatics and medical information management.

Prerequisites: BIOL 201, MATH 201, ITEC 202

Course Description

This course aims to provide students with the theoretical skills in organic chemistry. In the first part of the course, students will deal essentially with aromatic-aliphatic compounds (essentially benzene and arenes). In the second part, the study of the main functional groups will take place: alcohols, phenols, ethers and epoxides, aldehydes and ketones, carboxylic acids and derivates, amine and amides. At the end, spectroscopic techniques and structures will be explained essentially the NMR of proton and Infra-Red.

Prerequisites: CHEM 210

CHEM 321 **General Chemistry Laboratory** **1.00**

This course introduces students to basic chemistry laboratory techniques, methods of analysis and organic basic techniques. Experiments covered include colorimetric and potentiometric titrations, spectrophotometry, melting point determination, purification, separation techniques and organic synthesis.

Prerequisites: CHEM 210

CHUM 201 **Cultures and Humanities Exploration I** **3.00**

This course explores historical and cultural perspectives to investigate existential topics, including the basis of ethics and morality, existential and socio-psychological questions, philosophical dilemmas of freedom and truth, nature and culture, mind and body, question of death, modes of language, origins of belief and purpose of human existence, and importance of play and sport. CHUM 201 is interdisciplinary at its core, promotes critical thinking skills through the analysis of primary historical and current texts, and nurtures the ability of students to establish relationships between different information and to formulate new ideas.

Prerequisites: ENGL 200 (co-requisite) or ENGL 201 (co-requisite)

CHUM 202 **Cultures and Humanities Exploration II** **3.00**

This course is a natural extension of CHUM 201. It explores historical and cultural perspectives to investigate existential topics, including the origins of socio-political systems, certain mythologies, main religions, traditions and cultures, fundamental questions of justice, politics, economics, conditions of work, globalization, and interpretation of various artistic representations (paintings, movies). It is interdisciplinary at its core, promotes critical and creative thinking skills through the analysis of primary historical and current texts, and nurtures the ability of students to establish relationships between different information and to formulate new ideas.

Prerequisites: CHUM 201

COMM 344 **Communication & Presentation Skills** **3.00**

This course introduces the principles of public speaking to diverse audiences in different settings. It focuses on the analysis of speeches and other oral discourses, the writing of several types of speeches, and the preparation of a formal debate with emphasis on delivery.

Prerequisites: ARAB 201, ENGL 202

ENGL 000 **Intensive English** **5.00**

Designed for developing foundational skills, this intensive course aims at improving the students' levels o English in terms of their listening, speaking, reading, writing, and comprehension skills that are necessar for a successful academic and professional journey. English grammar and vocabulary skills are highlighted.

Prerequisites: SAT 1 (EBRW): 450-500, Toefl (IBT): 46-59, Toefl (PBT): 453-496, Toefl (CBT): 133-169, IELTS: 5.5, Duolingo: 85-90

Course Description

Course Code	Course Name / Description	Credits
ARAB 201	**Academic Arabic**	**3.00**

The course teaches students the basic elements of the Arabic language including grammar, syntax, morphology, and vocabulary with a focus on oral and communication skills. Emphasis is also placed on the analytical study of a wide variety of Arabic literary texts, with students exposed to major Arabic literary authors.

Prerequisites: None

BIOL 201 **General Biology and Evolution** **4.00**

This course covers fundamental principles of Biology. A holistic view is generated from the analysis of processes at the molecular level to their incorporation into multicellular organizations. Evolutionary shaping forces will be integrated to provide a platform for understanding the origins and diversity of life.

Prerequisites: None

BIOL 210 **Biochemistry** **3.00**

This course covers the fundamentals of metabolism at the cellular and organismal levels, with a focus on regulatory mechanisms that control metabolic flux. Topics include metabolic flux through energy converting pathways, and the metabolism of carbohydrates, lipids, amino acids, and nucleotides.

Prerequisites: BIOL 201, CHEM 210

BIOL 310 **Molecular Genetics and Genomics** **4.00**

This course covers the foundations of Genetics and Genomics. The inter-related topics include: 1) How the phenotypes of cells and organisms are connected to the information encoded within DNA templates; 2) How cells and organisms transmit information to the next generation; and 3) How DNA sequencing and recombinant DNA technology can be used to analyze and manipulate genomic information; 4) How genomes are organized and analyzed. * 1 credit is allocated for a virtual laboratory module.

Prerequisites: BIOL 201

BIOL 311 **Molecular Genetics Laboratory** **3.00**

This course offers experiences that cover the practical and analytical aspects of modern Molecular Biology. Hands-on training on recombinant DNA methods will be complemented by problem-solving exercises that are based on the generation of data from computer-simulated experiments.

Prerequisites: BIOL 310

BIOL 320 **Cell Biology and Development** **4.00**

This course highlights eukaryotic cell biological concepts, that include cellular organization, transport, function, and development. The focus will be primarily on eukaryotic cells and the relationship of cellular mechanisms to developmental biology.

Prerequisites: BIOL 310

BIOL 321 **Functional Morphology** **3.00**

This course delves into different aspects of our biological system, including the evolutionary logic and homeostatic balance of anatomy (form) and physiology (function). It covers various systems such as the skeletal system, muscular system, integumentary system, connective tissue, nervous system, sensory system, endocrine system, cardiovascular system, lymphatic/immune system, respiratory system, digestive system, urinary system, reproductive system, embryogenesis and development, as well as

nutrition and metabolism.

Prerequisites: BIOL 320 (co-requisite)

BIOL 420 **Cellular and Molecular Neurobiology** **3.00**

This course covers fundamental principles of neurobiology, focusing on the structure, function, and development of the nervous system. It explores the anatomy, physiology, molecular biology, and cytology of neurons and neural circuits of the brain.

Prerequisites: BIOL 320

BIOL 421 **Principles of Microbiology** **3.00**

BIOL421 introduces students to all types of microorganisms with a focus on human pathogens. In addition to fundamental principles of microbiology, the effect of different microorganisms on their hosts will be discussed alongside diagnostic, prevention and treatment strategies. This course includes a laboratory module.

Prerequisites: BIOL 320

BIOL 422 **Mechanisms of Immunology** **3.00**

This course explores the basic principles of immune system function, primarily human. This includes introducing the cells and factors which mediate the various types of immune responses, as well as their mechanisms of action in such processes as hypersensitivity reactions, inflammation, and neoplastic transformation. Virtual and on-site laboratory modules are integrated with the course material.

Prerequisites: BIOL 320

BIOL 430 **BioEthics** **2.00**

This course develops critical interdisciplinary thinking and dialogue on ethical issues in biomedical activities (research and practice) and explores key-tools that assist researchers and physicians in decision-making. It covers three modules: Ethical Theories (includes decision-making theories and initiates students to the clinical process of bioethical coaching), Ethics of Biomedical Experimentation and Research (examines the impact of the ethics of biotechnology and biomedical science in a global societal context), and Ethics of Medical/Healthcare Practice (discusses medical practice, professionalism, and fiduciary responsibility).

Prerequisites: BIOL 320

CHEM 201 **General Chemistry** **4.00**

This course promotes the understanding of basic chemical principles. Topics covered include measurements, atomic theory, bonding, stoichiometry, states of matter, solutions, acids and bases, and electrochemistry. This course includes 1-credit worth of a combination of virtual and on-site laboratory sessions.

Prerequisites: None

CHEM 210 **Organic Chemistry I** **4.00**

This course provides the necessary foundation to understand the chemistry of carbon-containing compounds. Topics include structure, stereochemistry, nomenclature, synthesis, properties, and reactions of the major classes of organic compounds. * 1 credit is allocated for a virtual and on-site laboratory module.

Prerequisites: CHEM 201

CHEM 310 **Organic Chemistry II** **3.00**