

Biotechnology MSc 2022 (recommended curriculum)

WHEN	SEMESTER	REC. SEMESTER	SUBJECT ID	SUBJECT TITLE	COURSE DIRECTOR	ORGANISATIONAL UNIT	PREREQUISITE 1	PREREQUISITE 2	PREREQUISITE 3	LECTURE	PRACTICE	SEMINAR	TOTAL	GRADE	CREDITS
2022/2023	1	Fall	OBA-014-T	Visits in Industry	Dr. Krisztián KVELL	Department of Pharmaceutical Biotechnology	-	-	-	0	28	0	28	Midsemester grade	2
2022/2023	1	Fall	OBA-015-T	Basics in Economy, Law, Management and Communication	Dr. Antal Tamás ZEMPLÉNYI	Department of Pharmaceutical Biotechnology	-	-	-	28	0	14	42	Midsemester grade	3
2022/2023	1	Fall	OBA-101-T	Ethics	Dr. Tibor SZOLCSÁNYI	Department of Behavioural Sciences	-	-	-	14	0	14	28	Midsemester grade	2
2022/2023	1	Fall	OBA-106-E	Biophysics - lecture	Dr. Beáta BUGYI	Department of Biophysics	-	-	-	28	0	0	28	Semester exam	2
2022/2023	1	Fall	OBA-106-G	Biophysics - practice	Dr. Beáta BUGYI	Department of Biophysics	OBA-106-E p	-	-	0	14	0	14	Midsemester grade	1
2022/2023	1	Fall	OBA-107-E	Cell Biology - lecture	Dr. Marianna PAP	Department of Medical Biology and Central Electron Microscope Laboratory	-	-	-	28	0	0	28	Semester exam	2
2022/2023	1	Fall	OBA-107-G	Cell Biology - practice	Dr. Marianna PAP	Department of Medical Biology and Central Electron Microscope Laboratory	OBA-107-E p	-	-	0	14	0	14	Midsemester grade	1
2022/2023	1	Fall	OBA-108-E	Biochemistry - lecture	Dr. Anikó TAKÁTSY	Department of Biochemistry and Medical Chemistry	OBR-201-T p	-	-	28	0	0	28	Semester exam	2
2022/2023	1	Fall	OBA-108-G	Biochemistry - practice	Dr. Anikó TAKÁTSY	Department of Biochemistry and Medical Chemistry	OBA-108-E p	-	-	0	28	0	28	Midsemester grade	2
2022/2023	1	Fall	OBA-110-E	Human Physiology - lecture	Dr. Dóra ZELENA	Institute of Physiology	-	-	-	28	0	0	28	Semester exam	2
2022/2023	1	Fall	OBA-119-T	Basics in Cell and Tissue Cultures	Dr. Judit Erzsébet PONGRÁ CZ	Department of Pharmaceutical Biotechnology	-	-	-	0	14	14	28	Midsemester grade	2
2022/2023	1	Fall	OBA-124-T	Applied mathematics and biostatistics	Dr. László GRAMA	Department of Biophysics	-	-	-	14	0	28	42	Midsemester grade	3
2022/2023	1	Fall	OBA-125-G	Human Physiology - practice	Dr. Dóra ZELENA	Institute of Physiology	OBA-110-E p	-	-	0	28	0	28	Midsemester grade	2
2022/2023	1	Fall	OBA-132-T	Basic Genetics	Dr. Gyula HOFFMANN	Faculty of Natural Sciences - Institute of Biology	-	-	-	14	0	0	14	Semester exam	1
2022/2023	1	Fall	OBR-201-T	Principles of Biochemistry	Dr. Anikó TAKÁTSY	Department of Biochemistry and Medical Chemistry	-	-	-	28	0	0	28	Signature	0
2022/2023	2	Spring	OBA-109-E	Protein Bioanalytics - lecture	Dr. Ferenc KILÁR	Institute of Bioanalysis	-	-	-	28	0	0	28	Semester exam	2
2022/2023	2	Spring	OBA-109-G	Protein Bioanalytics - practice	Dr. Ferenc KILÁR	Institute of Bioanalysis	OBA-109-E p	-	-	0	14	0	14	Midsemester grade	1
2022/2023	2	Spring	OBA-111-E	Basic Immunology - lecture	Dr. Péter NÉMETH	Department of Immunology and Biotechnology	OBA-107-E	-	-	28	0	0	28	Semester exam	2
2022/2023	2	Spring	OBA-111-GS	Basic Immunology - practice and seminar	Dr. Péter NÉMETH	Department of Immunology and Biotechnology	OBA-111-E p	-	-	0	14	14	28	Midsemester grade	2
2022/2023	2	Spring	OBA-112-E	Microbiology - lecture	Dr. László SZEREDAY	Department of Medical Microbiology and Immunology	OBA-107-E	-	-	28	0	0	28	Semester exam	2
2022/2023	2	Spring	OBA-112-G	Microbiology - practice	Dr. László SZEREDAY	Department of Medical Microbiology and Immunology	OBA-112-E p	-	-	0	14	0	14	Midsemester grade	1
2022/2023	2	Spring	OBA-115-T	Pharmaceutical Biotechnology	Dr. Judit Erzsébet PONGRÁ CZ	Department of Pharmaceutical Biotechnology	OBA-128-T p	-	-	28	14	14	56	Semester exam	4
2022/2023	2	Spring	OBA-126-T	Introduction to Developmental Biology	Dr. Péter BALOGH	Department of Immunology and Biotechnology	OBA-110-E	-	-	28	0	0	28	Semester exam	2
2022/2023	2	Spring	OBA-127-T	Genetic Manipulation	Dr. Krisztián KVELL	Department of Pharmaceutical Biotechnology	-	-	-	0	28	14	42	Midsemester grade	3
2022/2023	2	Spring	OBA-128-T	Biological therapies	Dr. Péter NÉMETH	Department of Immunology and Biotechnology	OBA-111-E p	-	-	28	0	0	28	Semester exam	2
2022/2023	2	Spring	OBA-133-T	Genetical Bioinformatics - Theory	Dr. Csaba FEKETE	Faculty of Natural Sciences - Institute of Biology	-	-	-	14	0	0	14	Semester exam	1
2022/2023	2	Spring	OBA-134-T	Genetical Bioinformatics - Practice	Dr. Csaba FEKETE	Faculty of Natural Sciences - Institute of Biology	-	-	-	0	28	0	28	Midsemester grade	2
2023/2024	3	Fall	OBA-116-T	Industrial Fermentation	Dr. Krisztián KVELL	Department of Pharmaceutical Biotechnology	-	-	-	28	14	0	42	Semester exam	3
2023/2024	3	Fall	OBA-117-E	Molecular Pathogenesis, Functional Genomics - lecture	Dr. Csaba FEKETE	Department of General and Environmental Microbiology, FNS	OBA-107-E	-	-	28	0	0	28	Semester exam	2
2023/2024	3	Fall	OBA-117-G	Molecular Pathogenesis, Functional Genomics - practice	Dr. Csaba FEKETE	Department of General and Environmental Microbiology, FNS	OBA-117-E p	-	-	0	28	0	28	Midsemester grade	2
2023/2024	3	Fall	OBA-129-T	Diploma thesis work I.	Dr. Péter BALOGH	Department of Immunology and Biotechnology	-	-	-	0	70	0	70	Midsemester grade	5
2023/2024	4	Spring	OBA-130-T	Diploma thesis work II.	Dr. Péter BALOGH	Department of Immunology and Biotechnology	OBA-129-T	-	-	0	350	0	350	Midsemester grade	25

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Specialty in Medical Biotechnology															
WHEN	SEMESTER	REC. SEMESTER	SUBJECT ID	SUBJECT TITLE	COURSE DIRECTOR	ORGANISATIONAL UNIT	PREREQUISITE 1	PREREQUISITE 2	PREREQUISITE 3	LECTURE	PRACTICE	SEMINAR	TOTAL	GRADE	CREDITS
2022/2023	2	Spring	OBH-005-E	Molecular Targets – Signal Transduction - lecture	Dr. Ferenc BOLDIZSÁR	Department of Immunology and Biotechnology	OBA-107-E	-	-	28	0	0	28	Semester exam	2
2022/2023	2	Spring	OBH-005-G	Molecular Targets – Signal Transduction - practice	Dr. Ferenc BOLDIZSÁR	Department of Immunology and Biotechnology	-	-	-	0	28	0	28	Midsemester grade	2
2023/2024	3	Fall	OBH-007-E	Molecular Development and Transdifferentiation - lecture	Dr. Péter BALOGH	Department of Immunology and Biotechnology	OBA-126-T	-	-	42	0	0	42	Semester exam	3
2023/2024	3	Fall	OBH-007-G	Molecular Development and Transdifferentiation - practice	Dr. Péter BALOGH	Department of Immunology and Biotechnology	OBH-007-E p	-	-	0	28	0	28	Midsemester grade	2
2023/2024	3	Fall	OBH-008-E	Advanced Tissue Culture Technologies - lecture	Dr. Judit Erzsébet PONGRÁCZ	Department of Pharmaceutical Biotechnology	-	-	-	28	0	0	28	Semester exam	2
2023/2024	3	Fall	OBH-008-S	Advanced Tissue Culture Technologies - seminar	Dr. Judit Erzsébet PONGRÁCZ	Department of Pharmaceutical Biotechnology	OBH-008-E p	-	-	0	0	14	14	Midsemester grade	1
2023/2024	3	Fall	OBH-009-G	Applied Biological Therapies	Dr. Péter NÉMETH	Department of Immunology and Biotechnology	-	-	-	0	28	0	28	Midsemester grade	2
2023/2024	3	Fall	OBH-010-E	Molecular Toxicology - lecture	Dr. Gábor István PETHŐ	Department of Pharmacology	OBH-005-E	-	-	28	0	0	28	Semester exam	2
2023/2024	3	Fall	OBH-010-G	Molecular Toxicology - practice	Dr. Gábor István PETHŐ	Department of Pharmacology	OBH-010-E p	-	-	0	28	0	28	Midsemester grade	2
2023/2024	3	Fall	OBH-011-T	Molecular Medicine - lecture	Dr. Judit Ágnes BENE-BERENTE	Department of Medical Genetics	OBH-012-T p	-	-	14	0	0	14	Semester exam	1
2023/2024	3	Fall	OBH-012-T	Molecular Diagnostics	Dr. Timea BERKI	Department of Immunology and Biotechnology	OBA-106-E	-	-	14	0	14	28	Semester exam	2
2023/2024	3	Fall	OBH-013-T	Molecular Therapies - lecture and seminar	Dr. Péter András ENGELMANN	Department of Immunology and Biotechnology	-	-	-	14	0	14	28	Semester exam	2
2023/2024	3	Fall	OBH-016-T	Biotechnology Quality Assurance	Dr. Judit Erzsébet PONGRÁCZ	Department of Pharmaceutical Biotechnology	-	-	-	14	0	14	28	Midsemester grade	2
Specialty in Pharmaceutical Biotechnology															
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2022/2023	2	Spring	OBI-008-E	Molecular Targets – Signal Transduction - lecture	Dr. Ferenc BOLDIZSÁR	Department of Immunology and Biotechnology	OBA-107-E	-	-	28	0	0	28	Semester exam	2
2022/2023	2	Spring	OBI-008-G	Molecular Targets – Signal Transduction - practice	Dr. Ferenc BOLDIZSÁR	Department of Immunology and Biotechnology	-	-	-	0	28	0	28	Midsemester grade	2
2023/2024	3	Fall	OBI-001-T	Pharmacology and Biotechnology in Medical Practice	Dr. Éva SZÓKE	Department of Pharmacology and Pharmacotherapy	-	-	-	28	0	0	28	Semester exam	2
2023/2024	3	Fall	OBI-006-E	Medical Plant Biotechnology - lecture	Dr. Györgyi HORVÁTH	Department of Pharmacognosy	-	-	-	28	0	0	28	Semester exam	2
2023/2024	3	Fall	OBI-009-E	Molecular Toxicology - lecture	Dr. Gábor István PETHŐ	Department of Pharmacology	OBI-008-E	-	-	28	0	0	28	Semester exam	2
2023/2024	3	Fall	OBI-009-G	Molecular Toxicology - practice	Dr. Gábor István PETHŐ	Department of Pharmacology	OBI-009-E p	-	-	0	28	0	28	Midsemester grade	2
2023/2024	3	Fall	OBI-010-E	Immunology in Pharmaceutical Biotechnology for Medical Diagnostics and Therapy - lecture	Dr. Judit Erzsébet PONGRÁCZ	Department of Pharmaceutical Biotechnology	-	-	-	14	0	0	14	Semester exam	1
2023/2024	3	Fall	OBI-010-G	Immunology in Pharmaceutical Biotechnology for Medical Diagnostics and Therapy - practice	Dr. Judit Erzsébet PONGRÁCZ	Department of Pharmaceutical Biotechnology	-	-	-	0	14	0	14	Midsemester grade	1
2023/2024	3	Fall	OBI-011-T	Protein Biotechnology	Dr. Katalin SIPOS	Department of Pharmaceutical Biology	-	-	-	14	0	0	14	Semester exam	1
2023/2024	3	Fall	OBI-012-E	Proteins: Industrial Production, Application in Therapy - lecture	Dr. Krisztián KVELL	Department of Pharmaceutical Biotechnology	-	-	-	14	0	0	14	Semester exam	1
2023/2024	3	Fall	OBI-012-G	Proteins: Industrial Production, Application in Therapy - practice	Dr. Krisztián KVELL	Department of Pharmaceutical Biotechnology	-	-	-	0	28	0	28	Midsemester grade	2
2023/2024	3	Fall	OBI-013-G	Medical Plant Biotechnology - practice	Dr. Györgyi HORVÁTH	Department of Pharmacognosy	-	-	-	0	28	0	28	Midsemester grade	2
2023/2024	3	Fall	OBI-014-T	Pharmaceutical Technology	Dr. Szilárd PÁL	Institute of Pharmaceutical Technology and Biopharmacy	-	-	-	28	14	0	42	Semester exam	3
2023/2024	3	Fall	OBI-016-T	Biotechnology Quality Assurance	Dr. Judit Erzsébet PONGRÁCZ	Department of Pharmaceutical Biotechnology	-	-	-	14	0	14	28	Midsemester grade	2

Total obligatory credits to obtain: 113

Optional credits to obtain: 7

Credits to obtain for the diploma: 120