

Al-Ahliyya Amman University
Faculty of Agricultural Technology
Study Plan for Agricultural Biotechnology & Genetic
Engineering 2021-2022 (140 Credit Hours)



First: University Requirements, (24) Credit Hours

1) Compulsory University Requirements: (12) Credit Hours

| Course No | Course Title | Cr.H | Prerequisite | Exception |
|-----------|------------------------------|------|--------------|---------------|
| A0161101 | Arabic Communication Skills | 3 | A0161100 | - |
| A0161201 | English Communication Skills | 3 | A0161200 | - |
| A0161301 | National Education | 3 | - | - |
| A0161401 | Military Sciences | 3 | - | Non Jordanian |

2) Elective University Requirements: (12) Credit Hours

A) Field 1 (maximum of 6 credit hours)

| Course No | Course Title | Cr.H | Department | Exception |
|-----------|----------------------------------|------|----------------------------------|--------------|
| A0161501 | Islamic Culture | 3 | Humanities & Social Sciences | - |
| A0161601 | Contemporary Issues | 3 | Humanities & Social Sciences | - |
| A0161701 | History of Jordan and Palestine | 3 | Humanities & Social Sciences | - |
| A0161901 | Media and Public Relations | 3 | Design of Cinema, TV and Theatre | - |
| A0411601 | Legal Education and Human Rights | 3 | Law | Law Students |
| A0161703 | Archeology and Tourism in Jordan | 3 | - | - |

B) Field 2 (maximum of 6 credit hours)

| Course No | Course Title | Cr.H | Department | Exception |
|-----------|---------------------------------|------|---------------------------------|-----------------------------|
| A0161602 | Critical Thinking Skills | 3 | English language and Literature | - |
| A0161603 | Entrepreneurship Skills | 3 | Special Education | - |
| A0161801 | Environmental and Public Safety | 3 | Humanities & Social Sciences | - |
| A0181100 | Sport and Health | 3 | Physical Education | Physical Education students |
| A0871103 | Principles of Renewable Energy | 3 | - | - |
| A0612303 | Community Health | 3 | - | - |

Second: Faculty Compulsory Requirements, (23) Credit Hours

| Course No | Course Title | Cr.H | Prerequisite | Co-requisite |
|-----------|-----------------------------|------|--------------|--------------|
| A0111101 | Mathematics (1) | 3 | - | - |
| A0111301 | General Chemistry | 3 | - | - |
| A0111302 | Practical General Chemistry | 1 | - | A0111301 |
| A1112301 | Biochemistry (1) | 2 | A0111401 | - |
| A1112303 | Practical Biochemistry | 1 | - | A1112301 |
| A0111401 | General Biology | 3 | - | - |
| A0111402 | Practical General Biology | 1 | - | A0111401 |
| A1211001 | Agricultural Biotechnology | 3 | A0111401 | - |
| A0111201 | General Physics (1) | 3 | - | - |
| A0341701 | Computer Skills (Health) | 3 | A0331700 | - |

Third: Major Requirements, (93) Credit Hours

A) Compulsory Major Requirements: (72) Credit Hours

| Course No | Course Title | Cr.H | Prerequisite | Co-requisite |
|-----------|---------------------------------|------|------------------------------------|--------------|
| A1211002 | Principles of Plant Protection | 3 | A0111401 | - |
| A1212003 | Principles of Plant Production | 3 | A0111401 | - |
| A1212004 | plant pathology | 2 | A1211002 | - |
| A1212005 | General Genetics | 3 | A0111401 | - |
| A1212006 | Molecular Biology | 3 | A1212005 | - |
| A0912501 | Biostatistics | 2 | A0111101 | - |
| A1113401 | Microbiology | 3 | A0111401 | - |
| A1213009 | Plant Tissue Culture | 3 | A1213008 & A1113401 | - |
| A1213011 | Smart Agriculture | 3 | A1211002 | - |
| A1213007 | Molecular Genetics | 3 | A1212006 | - |
| A1213008 | Plant Physiology | 3 | A1212003 | - |
| A1213013 | Food Biotechnology | 3 | A1211001 | - |
| A1213015 | Plant breeding | 3 | A1212005 | - |
| A1213016 | Genetic Engineering | 3 | A1213007 | - |
| A1213019 | Genome editing | 3 | A1212006 | - |
| A1214010 | Plant Biotechnology | 3 | A1211001 & A1213009 | - |
| A1214012 | Plant Genetic Resources | 2 | A1211002 | - |
| A1214014 | Animal Biotechnology | 3 | A1211001 | - |
| A1214017 | Bioinformatics | 3 | A1213007 | - |
| A1214018 | Environmental Biotechnology | 3 | A1211001 | - |
| A1214020 | Microbial Biotechnology | 3 | A1212006 & A1113401 | - |
| A1214021 | Biosafety and Bioethics | 2 | A1213016 | - |
| A1214022 | Field Training in Biotechnology | 6 | Finishing 90 credit hours | - |
| A1214023 | Seminar | 1 | Finishing 90 credit hours | - |
| A1214024 | Graduation Project | 3 | Successfully pass 100 credit hours | - |

B) Ancillary Major Requirements: (12) Credit Hours

| Course No | Course Title | Cr.H | Prerequisite | Co-requisite |
|-----------|---------------------------------|------|--------------|--------------|
| A1111601 | Organic Chemistry | 3 | A0111301 | - |
| A1212031 | Research Methods | 3 | A0912501 | - |
| A1213029 | Aquaonic and Hydroponic Culture | 3 | A1212003 | - |
| A1214030 | Seed Production and Technology | 3 | A1212003 | - |

C) Elective Major Requirements: (9) Credit Hours

| Course No | Course Title | Cr.H | Prerequisite | Co-requisite |
|-----------|------------------|------|---------------------|--------------|
| A1212025 | Biodiversity | 3 | A1212003 & A0111401 | - |
| A1213026 | Virology | 3 | A1211002 | - |
| A1213028 | Special Topics | 3 | - | - |
| A1214027 | Dairy processing | 3 | A1113401 & A1211001 | - |

Fourth: Remedial Requirements (For students who have not passed the level exam): (9) Credit Hours

| Course No | Course Title | Cr.H | Prerequisite | Co-requisite |
|-----------|--------------------------|------|--------------|--------------|
| A0161100 | Remedial Arabic | 3 | - | - |
| A0161200 | Remedial English | 3 | - | - |
| A0331700 | Remedial Computer Skills | 3 | - | - |