

Department of Plant Production

MSc. Programs

1- Study Plan for MSc. Program in Crop Science

Course Code Course Title Credits

First Level

ENG 055 English Language for MSc. Students 0
BOT 501 Advanced Plant Physiology 3
AGEC 518 Design & Analysis of Agricultural Experiments 3
AGRIC 501 Introduction to Scientific Research 1

Second Level

PLPR 501 Physiology of Horticultural Crops 3
PLPR 503 Ecophysiology of Field Crops 2
SOSC 531 Advanced Soil Fertility 3

Third Level

PLPR * General Courses Related to Research Topic 8
PLPR 595 Seminar 1

Fourth Level

PLPR * General Courses Related to Research Topic 4
PLPR 590 Special Studies 2

** General courses based on student research topic and subject to department approval*

General Courses for MSc. Program in Crop Science

Course Code Course Title Credits

PLPR 508 Advanced Plant Breeding 3
PLPR 541 Advanced Breeding of Field Crops 3
PLPR 543 Advanced Cereal Crop Production 2
PLPR 544 Advanced Leguminous Crop Production 2
PLPR 545 Advanced Sugar & Oil Crop Production 2
PLPR 546 Advanced Forage Crop Production 2
PLPR 547 Advanced Seed Production 2
PLPR 548 Weed Biology 2
PLPR 549 Field Evaluation of Cultivars & Agric. Treatments 3
CS 500 Computer Application for non-computer Majors 3
SOSC 542 Advanced Plant Nutrition 2
PLPT 513 Insect Physiology 2
PLPT 514 Insecticides 3
BOT 523 Field Taxonomy 2
BOT 551 Advanced Genetics 2
BOT 553 Advanced Cytology 2

2-Study Plan for MSc. Program in Horticulture

Course Code Course Title Credits

First Level

ENG 055 English Language for MSc. Students 0
BOT 501 Advanced Plant Physiology 3
AGEC 518 Design & Analysis of Agricultural Experiments 3
AGRIC 501 Introduction to Scientific Research 1

Second Level

PLPR 501 Physiology of Horticultural Crops 3
PLPR 503 Crop Production-Water Relations 3
SOSC 531 Advanced Soil Fertility 3

Third Level

PLPR * General Courses for Horticulture 6
PLPR ** Minor Courses in Horticulture 2
PLPR 595 Seminar 1

Fourth Level

PLPR ** Minor Courses in Horticulture 4
PLPR 590 Special Studies 2

** General courses required for all students majoring in horticulture*

*** Minor courses based on student research topic in Pomology, Vegetable crops, or Ornamental horticulture and subject to department approval*

Major and Minor Courses for MSc. Program in Horticulture

Course Code Course Title Credits

General Courses for Horticulture

PLPR 502 Agricultural Applications of Growth Regulators 2
PLPR 504 Morphology & Taxonomy of Horticultural Crops 2
PLPR 505 Environmental Stresses in Horticultural Crops 2
PLPR 506 Handling & Storage of Horticultural Crops 2
PLPR 507 Tissue Culture 2
PLPR 510 Breeding of Horticultural Crops 3
CS 500 Computer Application for non-computer Majors 3
FS 502 Advanced Food Analysis 2
PLPT 538 Pests of Cereals & Stored Agricultural Materials 2

Minor Courses

Pomology

PLPR 521 Fruit Tree Culture 2
PLPR 522 Viticulture 2
PLPR 523 Citriculture 2
PLPR 524 Dates & Date Palm Production 2
PLPR 525 Flowering & Fruit Setting in Fruit Trees 2

Vegetable Crops

PLPR 531 Advances in Vegetable Crop Production 2
PLPR 532 Crop Production of Family Cucurbitaceae 2
PLPR 533 Crop Production of Family Solanaceae 2
PLPR 534 Protected Agriculture of Vegetable Crops 2
PLPR 535 Propagation of Vegetable Crops 2

Ornamental Horticulture 2

PLPR 570 Woody Ornamental Plants 2
PLPR 572 Herbaceous Ornamental Plants 2
PLPR 573 Production of Indoor Plants & Internal Design 2
PLPR 574 Production of Economic Flowers 2
PLPR 575 Planning & Design of Common Ga

3-Study Plan for MSc. Program in Range Science & Forestry

Course Code Course Title Credits

First Level

ENG 055 English Language for MSc. Students 0
BOT 501 Advanced Plant Physiology 3
AGEC 518 Design & Analysis of Agricultural Experiments 3
AGRIC 501 Introduction to Scientific Research 1

Second Level

PLPR 503 Crop Production-Water Relations 3
PLPR 509 Range & Forest Ecosystems 3
SOSC 531 Advanced Soil Fertility 3

Third Level

PLPR * General Courses Related to Research Topic 8
PLPR 595 Seminar 1

Fourth Level

PLPR * General Courses Related to Research Topic 4
PLPR 590 Special Studies 2

** General courses based on student research topic and subject to department approval*

General Courses for MSc. Program in Range Science & Forestry

Course Code Course Title Credits

PLPR 503 Micro-technique & Tissue Analysis 2
PLPR 546 Advanced Forage Crop Production 2
PLPR 551 Silviculture 2
PLPR 552 Forest Management 2
PLPR 553 Wood Physical & Chemical Properties 2
PLPR 554 Chemical & Anatomical Structure of Wood 2
PLPR 555 Wood Treatment & Manufacturing 2
PLPR 561 Rangeland Ecology 2
PLPR 562 Range Improvement 3
ANPR 511 advanced Animal Nutrition 3
CS 500 Computer Application for non-computer Majors 3
BOT 521 Advanced classification of Flowering Plants 3
BOT 523 Field Taxonomy 2
BOT 541 Plant Ecology 3
ZOO 572 Conservation of Animal Species 2