## BACHELOR IN AGRICULTURAL SCIENCE IN AGRICULTURAL AND ENVIRONMENTAL SYSTEMS

 UPR CODE 0109 - V 2021First Year

| First Semester |  |  | Second Semester |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Code | Title | Num. of Credits | Code | Title | Num. of Credits |
| INGL 3*** | First year course in English | 3 | INGL 3*** | First year course in English | 3 |
| ESPA 3101 | Basic course in Spanish I | 3 | ESPA 3102 | Basic course in Spanish II | 3 |
| MATE 3171 | Pre-Calculus I | 3 | MATE 3172 | Pre-Calculus II | 3 |
| BIOL 3061 | General Biology I | 3 | BIOL 3062 | General Biology II | 3 |
| BIOL 3063 | Laboratory of General Biology I | 1 | BIOL 3064 | Laboratory of General Biology II Computing and | 1 |
| INGE 3011 | Engineering Graphics I | 2 | SAGA 3016 | Communication in <br> Agricultural and <br> Environmental Systems | 3 |
| EDAG 3005 | Agricultural Orientation | 1 |  |  |  |
|  | Total for Semester: | 16 |  | Total for Semester: | 16 |
| Second Year |  |  |  |  |  |
| First Semester |  |  | Second Semester |  |  |
| Code | Title | Num. of Credits | Code | Code | Title |
| INGL 3*** | Second year course in English | 3 | INGL 3*** | Second year course in English | 3 |
| QUIM 3131 | General Chemistry I | 3 | QUIM 3132 | General Chemistry II | 3 |
| QUIM 3133 | General Chemistry Laboratory I | 1 | QUIM 3134 | General Chemistry Laboratory II | 1 |
| MATE 3049 | Mathematical Analysis for Management Sciences | 3 | ECON 3021 or | Principles of Economics: Microeconomics, or | 3 |
| FISI 3091 | Elements of Physics | 3 | ECAG 3005 | Principles of Agricultural Economic Analysis |  |
| FISI 3092 | Elements of Physics Laboratory | 1 | SAGA 4048 | Farm Buildings | 3 |
| CFIT 3005 | Fundamentals of Crop Production | 4 | CIAN 3011 | Fundamentals of Animal Science | 3 |
|  |  |  | CIAN 3012 | Laboratory of Practices in Animal Science | 1 |
|  | Total for Semester: | 18 |  | Total for Semester: | 17 |

## Third Year



## Electives:

To provide the flexibility necessary for students to achieve their academic and professional goals, the curriculum allows them to select specific courses from approved lists. It is recommended to visit the academic advisor prior to enrolling in courses.

- Professional Electives ( 6 credits): These are courses of specialization in agricultural and environmental systems. Must be SAGA or INAG courses of 4000 level or above.
- Electives in Social Sciences and Humanities (9 credits): Will be selected by the student, with the advisor's approval, from a list of recommended courses of 3000 level or above as follows:
- 3 credits in ECON 3021: Microeconomics or ECAG 3005: Principles of Agricultural Economic Analysis. (Only one of the two courses will be counted toward the degree)
- 3 credits in Humanities (ALEM, ARTE, CHIN, FILO, FRAN, GRIE, HUMA, ITAL, JAPO, LATI, LITE, MUSI, RUSO or TEAT)
- 3 credits in Humanities (see above) or Social Sciences (ANTR, CIPO, CISO, ECAG 3015, ECAG 4006, ECAG 4015, ECAG 4026, ECAG 4027, ECON 3022, ECON 3091, ECON 3092, ECON 4037, ECON 4056, GEOG, HIST, PSIC or SOCI)
- Electives in Agricultural Economy (9 credits): The student, with the help of the advisor, will choose three (3) of the following courses:

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ECAG 3015 - Agricultural Law (3 cr.)
ECAG 4006 - Introduction to Consumer Economics (3 cr.)
ECAG 4007 - Marketing of Agricultural Products (3 cr.)
ECAG 4015 - Introduction to Resource Economics (3 cr.)
ECAG 4019 - Farm Management and Accounting (3 cr.)
ECAG 4028 - Agricultural Finance (3 cr.)
ECAG 4029 - Agribusiness Management (3 cr.)
ECAG 5006 - Feasibility Studies Agricultural Enterprises (3 cr.)
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Note: The student must have approved ECON 3021 or ECAG 3005 to enroll in the abovementioned courses. The ECAG 5006 course requires an approved ECAG 4019.

- Physical Education (2 credits): The student will choose 1 or 2 courses in EDFI at 3000 level or above.
- Free Electives (12 credits): The student will choose, with the advisor's help, twelve (12) credit hours in 3000 to 6000 level courses that are not equivalent to, similar to, or of lesser difficulty than other courses in the curriculum. Free electives may be used to take courses in curricular sequences, minor concentrations, complete requirements for graduate studies, or that serve the student's professional goals and interests.

