**Department of Plant and Soil Sciences**

**Application for the BSc Honours Plant Sciences and BSc Honours Medicinal Plant Science**

*(Subject to approval by the Head of Department)*

|  |  |
| --- | --- |
| **Personal Particulars** | |
| Surname: |  |
| First name: |  |
| University of Pretoria student number  : |  |
| ID / passport number: |  |
| Address during study: |  |
|  |
|  |
| Telephone and/or cell phone nr: |  |
| E-mail address: |  |
| Tel. and/or cell phone nr of relative: |  |
| Relation (parents or husband/wife): |  |
| **Employer Details (If Applicable)** | |
| Name of employer: |  |
| Telephone and/or cell phone nr: |  |
| E-mail: |  |
| **Qualifications** | |
| Under- / post graduate qualification(s): |  |
| Main subjects for undergraduate study: |  |
| University where degree was obtained: |  |

|  |  |
| --- | --- |
| **Intended study details** | |
| Full time or part time honours study? | Full time ❑Part time❑ (conditional on approval by Head of Department) |
| Preliminary degree choice: | ❑ BScHons Plant Science |
|  | ❑ BScHons Medicinal Plant Science\*\*\* |
| **Please complete only if you selected BScHons Plant Science**  Preliminary choice for **main discipline**: | ❑Plant Diversity |
| ❑Plant Ecology |
| ❑Plant Physiology / Biotechnology \* |
| ❑Plant Pathology\*\* |
| Have you applied to any other Honours programmes? Please list them: |  |
| Lecturer approached for research project during Honours study:  **IMPORTANT,** you are expected to have spoken to potential project supervisors about what projects they have on offer |  |
| Your research interests? (optional): |  |

\* Plant Physiology / Biotechnology - Please also send application to Prof Dave Berger ([dave.berger@up.ac.za](mailto:dave.berger@up.ac.za))

\*\* Any queries regarding the Plant Pathology stream please contact Prof Terry Aveling ([terry.aveling@up.ac.za](mailto:terry.aveling@up.ac.za))

\*\*\* Requirement: A minimum of 60% in Phytomedicine (BOT 365), which is offered in the Department of Plant and Soil Sciences.

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**Signature**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Date**

**E-mail the completed form, including your full academic record to:**

**Dr Gary Stafford (**[**gary.stafford@up.ac.za**](mailto:gary.stafford@up.ac.za)**)**

**\* If you are planning on doing the BScHons Plant Science Biotechnology option also send a copy to Prof Dave Berger (**[**dave.berger@up.ac.za**](mailto:dave.berger@up.ac.za)**)**

**PRELIMINARY COURSE SELECTIONS**

Please indicate which courses **you are** **interested in registering** for. Remember that certain courses are compulsory for all students whilst other courses are compulsory, according to the specific discipline.

***BSc (Hons) Plant Science***

**D** = Plant Diversity as main discipline **E** = Plant Ecology as main discipline

**PB** = Plant Physiology/Biotechnology **PP** = Plant Pathology as main discipline

It is compulsory that each student must have completed a total of **135** credits at the end of the programme. Additional modules to those indicated as compulsory, additional modules **must** be selected in consultation with the supervisor. 115 credits must be selected from the list below while additional 20 credits may be obtained from modules presented by another department.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Code** | **Module** | **Sem.** | **Credits** | **D** | **E** | **PB** | **PP** | **Your selection** |
| APS761 | Crop physiology 761 | 2 | 15 |  |  | \*\* |  |  |
| BOT 700 | Natural woodland and Forests: ecology and management 700 | 2 | 15 |  |  |  |  |  |
| BOT 705 | Molecular techniques 705 | 1 | 15 |  |  | § |  |  |
| BOT 718 | Introduction to Plant Biotechnology 718# | 1 | 10 |  |  | \*\* |  |  |
| BOT 730 | Plant ecology and conservation 730 | year | 10 |  | \*\* |  |  |  |
| BOT 741 | Applied Plant Anatomy |  |  |  |  |  |  |  |
| BOT 742 | Plant Classification 742<< | 2 | 20 | \*\* |  |  |  |  |
| BOT 746 | Applications in Plant Biotechnology 746# | 2 | 10 |  |  | \*\* |  |  |
| BOT 782 | Research report 782 | year | 60 | \* | \* | \* | \* | X |
| BOT 783 | Seminar main 783 | 1 | 15 | \* | \* | \* | \* | X |
| BOT 784 | Trends in plant science 784 | 2 | 10 |  |  |  |  |  |
| BOT 786 | Practical plant identification and herbarium curation 786 | 1 | 10 | \*\* |  |  |  |  |
| BOT 788 | Spatial analysis in ecology 788 | 2 | 10 |  |  |  |  |  |
| BOT 791 | Land reclamation and restoration ecology 791 |  | 15 |  |  |  |  |  |
| BME 780 | Statistics for biological sciences 780 | 1 | 15 |  | \*\* |  |  |  |
| BTW 701 | Biotechnology in the workplace 701 | year | 15 |  |  | § |  |  |
| PLG 783 | Advanced plant disease control 783$ | 1 | 15 |  |  |  | \*\* |  |
| PLG 7XX% | Plant disease epidemiology 7XX$ | 2 | 15 |  |  |  | \*\* |  |
| PLG 7YY% | Current concepts in plant pathology 7YY$ | 2 | 15 |  |  |  | \*\* |  |

\* Compulsory modules for all students, \*\* Compulsory modules for the discipline of study

§ BOT 705 and BTW 701 are for BSc Hons Biotechnology students. PB students who wish to take it as an elective need to apply to the course leader.

<< BOT 742 is only for main discipline Plant Diversity students.

# BOT 718 and BOT 746 requires background in Molecular Biology. Students who have passed BTC 361 (Plant Genetics & Crop Biotechnology) qualify for BOT 718/746. Students who have not completed BTC 361 must attend an interview with BOT 718/BOT 746 study leaders before admission

$ The PLG modules have the following prerequisites; PLG 7XX: PLG 262, PLG 351 and PLG 363 or TDH; PLG7YY: PLG 351 or TDH; PLG 783: PLG 363 or TDH.

%New PLG modules have not been assigned codes yet.

***BSc (Hons) Medicinal Plant Science***

A total of **135** credits are required for BSc (Hons) Medicinal Plant Science. A summary of compulsory and elective modules and the respective credits are as follows:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Code** | **Module** | **Sem.** | **Credits** | **Your selection** |
|  | **Compulsory modules** |  |  |  |
| BOT 748 | Phytopharmacology 748 | 1 | 10 |  |
| BOT 749 | Pharmacognosy / Phytotherapy 749 | 1 | 10 |  |
| BOT 761 | Advanced Phytomedicine 761 | 2 | 10 |  |
| BOT 782 | Mini-dissertation 782 | year | 60 |  |
| BOT 783 | Seminar main 783 | 1 | 15 |  |
|  | Compulsory subtotal |  | **105** |  |
|  | **Elective modules\*** |  |  |  |
| BOT 718 | Introduction to Plant Biotechnology 718# | 1 | 10 |  |
| APS761 | Crop physiology 761 | 2 | 15 |  |
| BOT 746 | Applications in Plant Biotechnology 746# | 2 | 10 |  |
| BOT 784 | Trends in plant science 784 | 2 | 10 |  |
| BOT 786 | Practical plant identification 786 | 1 | 10 |  |
| BOT 788 | Spatial analysis in ecology 788 | 2 | 10 |  |
| BOT 700 | Natural woodland and Forests: ecology and management 700 | 2 | 15 |  |
|  | Elective subtotal (must be 30 credits or more) |  |  |  |

**\*** Elective module selections are to be discussed with you supervisor. In some cases, you may be permitted, should you meet all the prerequisite requirements, to do ‘700-level’ modules from within the department and other departments in the NAS faculty.

**#** BOT 718 and BOT 746 requires background in Molecular Biology. Students who have passed BTC 361 (Plant Genetics & Crop Biotechnology) qualify for BOT 718/746. Students who have not completed BTC 361 must attend an interview with BOT 718/BOT 746 study leaders before admission.