**Department of Plant and Soil Sciences**

**Internal application for the BSc Honours Plant Science course**

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

|  |  |
| --- | --- |
| **Personal Particulars** | |
| Date of application: |  |
| Surname: |  |
| Full names: |  |
| First name: |  |
| University of Pretoria student number (if applicable): |  |
| ID / passport number: |  |
| Home language: |  |
| Address during study: |  |
|  |
| Telephone and/or cell phone nr: |  |
| Fax 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❑ |
| Preliminary choice for **main discipline**: | ❑Plant Diversity |
| ❑Plant Ecology |
| ❑ Plant Pathology |
| ❑Plant Physiology / Biotechnology \* |
| ❑(Option): Medicinal Plant Science\*\* |
| Preliminary choice for **elective discipline**: | ❑Plant Diversity |
| ❑Plant Ecology |
| ❑Plant Physiology / Biotechnology |
| Lecturer approached for research project during Honours study:  **IMPORTANT** |  |
| Your research interest? (optional): |  |

\* also send application for to Prof Dave Berger ([dave.berger@up.ac.za](mailto:dave.berger@up.ac.za))

\*\* A minimum of 60% in Phytomedicine (BOT 365), which is offered at third-year level 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 Johanna Bapela (**[**johanna.bapela@up.ac.za**](mailto:gary.stafford@up.ac.za)**)**

**\* If you are planning on doing the 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 as main discipline, **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 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** |
| APS 761 | 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 730 | Plant Ecology and Conservation 730 | year | 10 |  | \*\* |  |  |
| BOT 741 | Applied Plant Anatomy | 2 | 15 | \*\* |  |  |  |
| BOT 742 | Plant Classification and Phytogeography 742<< | 2 | 20 | \*\* |  |  |  |
| BOT 746 | Applications in Plant Biotechnology 746# | 2 | 10 |  |  | \*\* |  |
| BOT 761 | Advanced Phytomedicine 761 | 2 | 10 |  |  |  |  |
| BOT 782 | Research Report 782 | year | 60 | \* | \* | \* | \* |
| BOT 783 | Seminar Main 783 | 1 | 15 | \* | \* | \* | \* |
| BOT 784 | Trends in Plant Science 784 | 2 | 10 |  |  |  |  |
| BOT 786 | Practical Plant Identification and Herbarium Curation 786 | 1 | 15 | \*\* |  |  |  |
| BOT 788 | Spatial Analysis in Ecology 788 | 2 | 10 |  |  |  |  |
| BOT 789 | Plants, People and Planet 789 | year | 5 |  |  |  |  |
| BOT 791 | Land Reclamation and Restoration Ecology 791 | 1 | 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 785 | Plant Disease Epidemiology 785$ | 2 | 15 |  |  |  | \*\* |
| PLG 786 | Current Concepts in Plant Pathology 786$ | 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 module leader of BOT 705 (Prof Berger; [dave.berger@up.ac.za](mailto:dave.berger@up.ac.za)).

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

# BOT 746 requires a background in Molecular Biology. Students who have passed BTC 361 (Plant Genetics & Crop Biotechnology) qualify for BOT 746. Students who have not completed BTC 361 must attend an interview with BOT 746 module leader before admission. (Prof Berger; [dave.berger@up.ac.za](mailto:dave.berger@up.ac.za))

$ The PLG modules have the following prerequisites: PLG 785: PLG 262, PLG 351 and PLG 363 or TDH; PLG786: PLG 351 or TDH; PLG 783: PLG 363 or TDH.

***BScHons Medicinal Plant Science***

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Code** | **Module** | **Sem.** | **Credits** |
|  | **Compulsory modules** |  |  |
| BOT 748 | Phytopharmacology 748 | 1 | 10 |
| BOT 749 | Pharmacognosy / Phytotherapy 749 | 1 | 10 |
| BOT 761 | Advanced Phytomedicine 761 | 2 | 10 |
| BOT 782 | Research Report 782 | year | 60 |
| BOT 783 | Seminar Main 783 | 1 | 15 |
|  | Compulsory subtotal |  | **105** |
|  | **Elective modules\*** |  |  |
| APS761 | Crop Physiology 761 | 2 | 15 |
| BME 780 | Statistics for biological sciences 780 | 1 | 15 |
| BOT 746 | Applications in Plant Biotechnology 746# | 2 | 10 |
| BOT 784 | Trends in Plant Science 784 | 2 | 10 |
| BOT 786 | Practical Plant Identification and Herbarium Curation 786 | 1 | 15 |
| BOT 788 | Spatial Analysis in Ecology 788 | 2 | 10 |
| BOT 741 | Applied Plant Anatomy 741 | 2 | 15 |
| BOT 789 | Plants, People and Planet | year | 5 |
|  | Elective subtotal (must be 30 credits or more) |  |  |

**\*** Elective module selections are to be discussed with your 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 746 requires a background in Molecular Biology. Students who have passed BTC 361 (Plant Genetics & Crop Biotechnology) qualify for BOT 746. Students who have not completed BTC 361 must attend an interview with BOT 746 module leader before admission. (Prof Berger; [dave.berger@up.ac.za](mailto:dave.berger@up.ac.za))