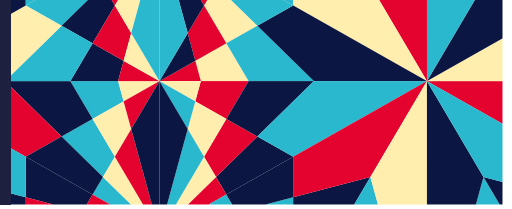




Utrecht University

Honours Community



# Honours Programme Pharmaceutical Sciences (HPPS)



A study at the university is varied and challenging. However, people differ and therefore we offer an Honours Programme to students who prefer and can handle even more broadening and deepening in their studies. Do you want to learn more and develop your talents to the utmost? Perhaps the Honours Programme Pharmaceutical Sciences suits you.

# Introduction HPPS

## Introduction HPPS

Honours Programme Pharmaceutical Sciences

The Honours Programme Pharmaceutical Sciences (HPPS) is a programme for students of Pharmacy and College of Pharmaceutical Sciences (CPS) who are looking for an additional challenge beyond their regular study curriculum. Every participant gets to design their own Honours Programme and thus everyone's Honours Programme is different and unique. Therefore, taking part in HPPS means deepening and broadening your knowledge in whatever parts of the pharmaceutical sciences take your fancy. Other important aspects of the HPPS are developing excellent academic skills in the broadest sense and interacting with both staff and fellow Honours students from different years.

Honours students are generally ambitious, curious, creative, hard working, able to cope with uncertainty and like challenging themselves, but even if you do not recognise yourself in this profile, the HPPS might be something for you. We encourage you to have a look through this leaflet and find out! This leaflet contains all the information that you need - and more.

### Introduction coordinator HPPS

#### Dirk T.S. Rijkers

Coordinator HPPS

Dear students,

The department of Pharmaceutical Sciences welcomes you and invites you to participate in the Honours Programme Pharmaceutical Sciences (HPPS). This programme offers excellent students a possibility to design, based on their own interests and drive to explore, a combination of extracurricular courses and projects beyond their regular study curriculum. The HPPS is meant for students that belong to the College of Pharmaceutical Sciences as well as for the Pharmacy cohorts, who feel that their regular curriculum does not provide enough challenge or in-depth courses, and lab courses, or for those who want to broaden their general knowledge of the natural sciences.

Why honours? To answer this question I will cite Mark Twain, who said: "Twenty years from now, you will be more disappointed by the things you didn't do than by the ones you did. So throw off the bowlines, sail away from the safe harbour. Catch the trade winds in your sails. Explore, dream, discover..."

When I was a chemistry student - already a long time ago - an Honours Programme as such did not exist. In my final year, I decided to focus on something different, since at that

time I knew chemistry only from the textbooks, but I did not know the chemistry in real life at all. So I decided to use one year to look around and discover my own world of chemistry. I was a practical trainee for six months at DSM research (and later on they paid me a part of my PhD studies), I participated in an international study tour travelling through Germany, Switzerland and Italy, I was a mentor/tutor of a group of first year students, I was a board member of a student association, and I worked on a case study 'ceramic materials for high temperature applications', something far beyond my comfort zone. This do-it-yourself honours year opened my eyes: there was a lot going on I had never experienced before! In hindsight it was a very valuable contribution to my personal development, and to be honest, in the beginning, I was a little bit hesitant to do this all, but it really paid off!

Albert Einstein once said: "The important thing is not to stop questioning...never lose a holy curiosity..."

I hope you will enjoy reading this information leaflet and that it will be helpful for you in making the right decision to enrich your bachelor studies as an Honours student. Enjoy your path of discovery!



Dirk T.S. Rijkers  
Coordinator of Honours Programme  
Pharmaceutical Sciences  
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# Honours vs. Regular education

## Honours education vs. Regular education

|                                   | Honours education   | Regular education  |
|-----------------------------------|---|--|
| Group size                        | Small cohort  | Large cohort   |
| Interaction                       | Honours students have the opportunity to have more interaction with faculty, staff and fellow students.   | Interaction with the faculty and staff is mostly limited to the course coordinator and the teacher of your workgroup.  |
| Teaching method                   | More student-centered: more self-regulation, proactive learning and more working in small groups. The student has the opportunity to improve his knowledge about subjects of his own interest.  | More teacher-centered: more regulation by the teacher and passive learning. There are some group projects in which you need to work in small groups, but most of the time your work is individual. |
| Learning                          | More cooperative learning, freedom in choice of study topic and the student has more responsibilities in his work and development because he needs to show initiative in what he wants to accomplish.   | The learning is more restricted to the study curriculum. There is also cooperative learning, but less than within honours. There is more self-study.   |
| Opportunities to perform research | More opportunities because of the interaction with the staff and research groups. You will also get more in contact with different companies.   | Fewer opportunities, as contact with the staff and research groups is limited. But it is of course still possible to perform research.   |
| Opportunities to train skills     | You get the opportunity to train various skills. For example: academic skills, research skills, communicative skills and leadership skills.   | The skills you will train are more restricted. This are mostly the obligatory skill tests: cooperative skills and communicative skills.  |
| Aspects of focus                  | <ul style="list-style-type: none"> <li>Community building</li> <li>Global thinking</li> <li>Ethical reflection on scientific developments</li> <li>Own choices</li> <li>More focus on student own interest</li> <li>Interdisciplinarity</li> <li>More responsibilities</li> </ul> | <ul style="list-style-type: none"> <li>Theoretical knowledge</li> <li>Practical knowledge</li> <li>More restriction to study curriculum</li> </ul>   |

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# Structure Honours Programme



## Structure Honours Programme

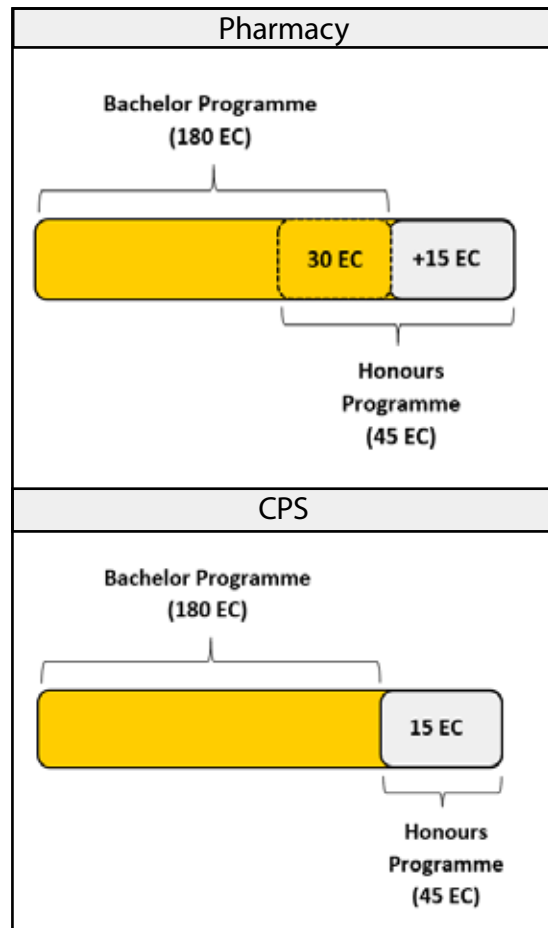
Pharmacy and CPS

The Honours Programme of Pharmaceutical Sciences is for both Pharmacy and CPS bachelor students. However, the content of the programme is different for both studies. The Pharmacy programme includes 45 ECTS and the CPS programme includes 15 ECTS, because CPS already has its courses on honours level. You can earn the ECTS as long as you are a bachelor student to a maximum of four years. This will enable you to study abroad or to incorporate an interdisciplinary minor within your bachelor studies.

To earn the 45 ECTS for the Pharmacy programme, you need to earn 30 ECTS intracurricularly and 15 ECTS extracurricularly. The intracurricular 15 ECTS are reserved for an honours bachelor thesis (page 6) and 15 for subjects upgrade or courses at honours level (page 5). You will get 7,5 ECTS with HPPS projects (page 8) and 7,5 for the interdisciplinary SHA programme (page 10) in the extracurricular part.

CPS students have to earn the extracurricular ECTS, 7,5 for HPPS projects and 7,5 for SHA. Further on you will read more information about how to earn the ECTS.

The table below represents the simplified structure of the HPPS programme and the structure of this leaflet.



|                 |  | Pharmacy | CPS      |
|-----------------|--|----------|----------|
| Intracurricular | Course upgrade or courses at honours level | 15 ECTS  | -        |
|                 | Honours bachelor thesis                    | 15 ECTS  | -        |
| Extracurricular | HPPS projects                              | 7,5 ECTS | 7,5 ECTS |
|                 | SHA programme                              | 7,5 ECTS | 7,5 ECTS |
| Total           |  | 45 ECTS  | 15 ECTS  |

The ECTS to be earned per category per study

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## Course upgrade or courses at Honours level



### Interview

#### Julia van Dommelen

Student Pharmacy, 2nd year

## Course upgrade or courses at Honours level

Intracurricular - Pharmacy

As a Pharmacy student, you need to earn 30 ECTS intracurricularly. 15 of those ECTS need to be earned by upgrading courses or by following courses at Honours level.

### Upgrading courses

In year 2 and 3, there is the possibility to upgrade regular Pharmacy courses. You can do this by choosing a subject from a course that you like and about which you want to broaden your knowledge. You will look with more depth at that particular subject and you will eventually put that information in an assignment. There are different possibilities for the assignment. It is for example possible to make a film clip, but you also have the opportunity to create new teaching material for students. When you want to upgrade a course, you need to mail the coordinator of that particular course. Together you can discuss your ideas and think about an interesting assignment. The coordinator or the teacher will eventually be the one who grades the assignment. You will earn 7,5 ECTS for HPPS by upgrading a course provided you pass the regular course.

### Courses at Honours level

Another way to earn the 15 ECTS is by following courses at honours level. It is possible to follow CPS courses as a Pharmacy student. Be aware of the fact that CPS courses are 5 weeks and Pharmacy courses are 10 weeks. Therefore, you need to follow two CPS courses in one period. If you want to do this, you need to look carefully at your planning for year 2 and 3, to make sure that this is possible. You will get 7,5 ECTS by following one CPS course. Another possibility is to take part in the course "One Health". One Health is a collaborative effort of multiple disciplines working locally, nationally and globally to attain optimal health for people, animals and our environment. There will be around six participants from every discipline. Because there are many disciplines that take part, you will have the possibility to look at health from different perspectives. You will earn 7,5 ECTS by finishing the course One Health.

"Hi! My name is Julia van Dommelen. In year 2 of the study Pharmacy I upgraded the course about hormonal disorders. The course consists of three themes and I made a filmclip about one of those themes as an assignment. This clip is now used for new students that will follow the course about hormonal disorders.

The first thing I had to do was reading a chapter very precisely and I summarized it. After that I made a powerpoint presentation. This was the basis of my film clip and I made the script for the clip after this. The last thing I did was record the film clip and edit it. I got feedback from my coordinator and made a few adjustments. After that my assignment was graded with a pass.

I really liked upgrading the course because you are also still working on the Pharmacy curriculum. Therefore, it will also help you with passing the course. The CPS courses are in my opinion very different from the Pharmacy courses and when you don't really like that, upgrading courses is a nice option to still get your points for Honours."

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## Honours bachelors thesis

Intracurricular - Pharmacy

Every student has to write a thesis at the end of their bachelor. A "normal" thesis (non-HPPS) consists of a literature research and takes the time of one course in one period (7.5 ECTS).

An Honours thesis is a bit different. For an Honours thesis you have to do research, in which the student will make some of the essential steps of research. This includes generating, testing and developing a research proposal, establishing and implementing its experiments, reporting and presenting the research results. The final product will be a research proposal in the form of a presentation and a written Honours thesis. This Honours thesis takes more time, it takes the time of one full period (15 ECTS), or two half periods (2x 7.5 ECTS).

This Honours bachelor thesis will give you 15 ECTS in the HPPS programme and 15 ECTS in the normal curriculum.

### Interview

#### Merel de Boer

Pharmacy Student, 3rd year



- Have you finished your thesis or are you still working on it?

"I did not finish my thesis yet."

- Can you give a summary of what you are doing or what you've done?

"The aim of my literature study was to answer the question: 'Which cellular mechanisms are involved in the expression and secretion of galectin-9 by intestinal epithelial cells after stimulation by bacterial CpG DNA and oligosaccharides?'. Galectin-9 is an important immune modulator, which can diminish the development of food allergy. To answer my research question, I first looked at the mucosal immune system and the pathophysiology of

food allergy. Thereafter, I discussed the different processes in the IEC that can be responsible for the expression and secretion of galectins and set up a hypothesis about the cellular mechanisms. During my practical part, I focused on the secretion mechanism of galectins by intestinal epithelial cells and tested my hypothesis about this with a co-culture model."

- Did/do you enjoy doing the research and working on the thesis? why?

"I really enjoyed working on my thesis. In the beginning, it was a bit struggling because you don't know what is exactly expected from you. However, after a while you will find more and more information and get more knowledge about your topic. This makes it easier to write some good text and when the first chapter for example is finished, that is really motivating and you will keep on and enjoy it. The practical part was also interesting. I think especially as a Pharmacy student, because labwork is not included in our curriculum in such a way. I have learnt quite some new things, which can be very helpful in the future. I didn't just learn things regarding to labwork but also on personal level, for example how to deal with problems you encounter and being critical to yourself and others."

- What makes your honours thesis different than a "normal" bachelor thesis?

"A normal bachelor thesis is only theoretical, but my thesis also includes a practical part. Based on literature, I set up a hypothesis about the secretion routes of galectins by intestinal epithelial cells. During the practical part, I really tested this hypothesis which is very nice I think. Being able to test your own hypothesis makes your practical even more interesting and also worthful to research field, because you're really adding something new with your experiment. Another point is that a normal pharmacy thesis is not written in English, but just in Dutch."

### Interview

#### Sander Lamme

Pharmacy Student, 3rd year

- Have you finished your thesis or are you still working on it?

"I am still working on it until the beginning of April. So in total I spent around 2,5 months on the project."

# Honours Bachelors Thesis



- Can you give a summary of what you are doing or what you've done?

"I am doing research on the kidney. Proximal tubular epithelial cells can get damaged in a process called drug-induced nephrotoxicity. Potentially, stem cell secretome (everything stem cells secrete in their medium) can help these cells recover from damage. I use modified proximal tubule epithelial cells and damage them using drugs. Then I apply secretome (gathered under normoxic and hypoxic conditions) and assess if their viability and functionality is improved. I am currently also investigating the effect of dialysate on the cells. Our research group is doing research to create a bio-artificial kidney (BAK). The cells we use in the BAK are exposed to dialysate. However, we already know dialysate damages the cells. I will try to find out if the secretome of stem cells could prevent damage of the cells and prolong the lifetime of the bio-artificial kidney."

- Did/do you enjoy doing the research and working on the thesis? why?

"Yes, I do enjoy it. Doing research this intensively is totally new for me and a real challenge. I get to experience doing research and working in a team of experts. Sometimes I feel like the challenge is a bit too much and the working hours are very irregular. Nevertheless, it is a good experience and would certainly recommend it if you want to learn a lot!"

- What makes your honours thesis different than a "normal" bachelor thesis?

"The focus is more on research. Especially in my project due to the lab work. Another big difference for the pharmacy bachelor thesis is that it amounts to 15 instead of 7,5 ECTS."



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## Descartes College

### Interview

#### Regina Voss

CPS Student, 2nd year



"I am Regina and I am both a student in HPPS and in Descartes College. I intended to follow one Descartes course of half a year, as I was curious for their variety of lectures and interdisciplinary discussions. However, I ended up having so much fun that I decided to follow the whole Honours programme aside from HPPS. This means that I do not use the earned 30 ECTS for HPPS and receive after 2 years a separate certificate for Descartes College, as well as for HPPS. What made me choose this was that the lectures differ a lot from our own, which makes them highly interesting. It seems like other disciplines have a totally different viewpoint on the world, for they have other knowledge they base their perspectives on. Also, they encourage you to talk to students from studies of the whole university, as they have a discussion after the lecture and afterwards a 'borrel' with pizza. If that isn't enough, the study association of Descartes also organises activities to get to know your fellow students and they really want to create a community. To pass a Descartes College course requires one evening a week (Tuesday or Wednesday, depending on the course you are following), each with 3 hours in preparation and every course one bigger assignment. I believe this is easy to fulfill, for the topics are interesting and it does not feel like a lot of work. The lectures that I found most memorable were that from nature publicist and UU professor in geosciences Appy Sluis and of stem cell expert Hans Clevers. In short, if you do not feel your study addresses societal, philosophical or ethical issues enough or if you want some broadening of your studies, I would recommend you to follow Descartes College."

## Descartes College

Extracurricular - Pharmacy and CPS

Descartes College is a separate Honours programme (not included in HPPS or SHA) in which students from the whole university can participate. The interdisciplinary students, discussions with multiple perspectives and lectures of top scientists talking about their expertise, make the programme diverse. The 4 courses take each half a year (7.5 ECTS) and have general themes, overthinking the role of science. One evening a week, a lecture is given about one of the many disciplines the university teaches, after which a discussion is led by the students about that topic. Unfortunately, the lessons are in Dutch, so not suited for non-Dutch speaking internationals. Especially for Pharmacy students, one or more half year courses of Descartes College can earn you some extra ECTS for HPPS. There are multiple ways to fill in the earned 7.5 ECTS, so the options are either to replace HPPS projects with it (Pharmacy and CPS), or fill it in for your extracurricular parts or even instead of a normal elective (Pharmacy). Please contact the HPPS coordinator for advice and do not hesitate to follow Descartes College, when you're interested. The website of Utrecht

University also holds additional information about Descartes College, but be aware that for Honours students application for Descartes College is not necessary, as you already applied for HPPS. You can just register for the course in Osiris or just contact by email that you want to follow the course as an Honours student, so they will list you for the course.

| Study                     | Pharmacy | CPS |
|---------------------------|----------|-----|
| Whole DC programme        | x        | x   |
| Replacing an HPPS project | x        | x   |
| Extracurricular HPPS part | x        |     |
| Elective                  | x        | x   |

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## HPPS Projects



### HPPS projects

Extracurricular - Pharmacy and CPS

To earn ECTS for HPPS, you should work on projects related to the field of pharmaceutical sciences. Every hour spent on an HPPS project adds up to your earned HPPS ECTS. HPPS organizes lots of meetings to inform its members about running projects, but also on interesting topics to broaden your knowledge. Every year, there are 10 meetings, 4 of which are update meetings, 4 thematic events, and 2 social events. During every meeting, dinner is provided and the meetings are a good opportunity to meet your fellow Pharmacy or CPS students. Participation of a meeting or event is valued for 0.1 ECTS and adds to your extracurricular HPPS ECTS total, which should equal 7.5 ECTS.

#### Projects

The core of earning ECTS for HPPS is working in a project related to the subject of Pharmaceutical sciences with your fellow HPPS members. You can either set up your own project about a topic of your interest or join an existing project, most of the time larger of

size and passed on throughout several HPPS member generations (several examples of projects are displayed in the boxes throughout these pages). You should collect the hours you spend on working on your project(s), to reach a total of 7.5 ECTS (210 hours) required for your extracurricular HPPS ECTS total.

#### The Green Chemistry Project

This project looks at ways to make the pharmaceutical world more sustainable and environment-friendly. The main goals are pharmaceutical waste removal and how to produce less waste in the first place. From all the preventative measures, the focus is mainly on catalytic reaction used in the lab to neutralize the dangerous waste and make it harmless for the environment. They also focus on methods to remove the drugs from the environment. The main goal of the project is to make people more aware about how we can make our waste less hazardous and to stimulate students to think of new ideas to improve this project. Currently, they are still in the stage of gathering information from literature, but they want to present their findings at different HPPS events. They will also continue with more in-depth research.

#### The Amoxicilline Project

The aim is to produce lollipops containing amoxicillin. Amoxicillin is an antibiotic and using the lollipop formulation it would be more child friendly, as well as allowing the children in poorer countries without access to water to take in amoxicillin easier. This project includes a lot of literature research, but most important also a lot of lab work!

#### The Book Project

The aim of the book project is to provide an overview of the main topics studied in the College of Pharmaceutical Sciences program to highschool students and readers who are interested. These topics are organized into the following different chapters: an introduction to pharmacy, epidemiology and pharmaceutical research, cell biology, pharmacokinetics/pharmacodynamics, the drug and its target, immunology (cancer, autoimmune diseases, etc.), neurology, and cardiology, along with relevant diseases and accompanying current research. The chapters are explained in a manner that is easy to understand by those who have little knowledge about this field.

#### 'Drugs and beyond'

In March 2018, a group of students took the initiative to set up the journal: 'Drugs and beyond'. The idea of the project is to create a journal for the HPPS community, where updates about current researches are provided. They also want to provide a platform to exchange news about the HPPS community. The plan is to create a new issue every semester..The journal consists of a thematic section, news about research in general, internship abstracts, project recruitments and a calendar with all the important dates. Two issues have been finished and they are currently working on issue number three.



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## HPPS Events

Extracurricular - Pharmacy and CPS

### Update meetings

At these meetings members get updated on running and starting projects of your fellow HPPS members. Students or former HPPS/PhD students can also present their own course through HPPS, explaining about projects and ways to complete them and inspiring you to follow your own course. Update meetings show members the progress on each project, as every project has to be presented at an update meeting once. There are also students who have an idea for a project, and are still looking for members. An update meeting is the perfect moment to make other students enthusiastic about your project and seduce them to join.

### Thematic events

Members of the HPPS committee organize thematic events to broaden your knowledge. They search for an interesting topic, in the field of pharmaceutical sciences and arrange professors who will speak about this topic and about their job. Two examples of thematic event themes are Alternative Medicine and Placebos, about which 3 or 4 speakers give a short presentation or show a (self-made) documentary of in depth information or about their topic-related research. When attending these meetings, you learn what other aspects are related to pharmaceutical sciences and you can see what other scientists do as their job.



### Social events

Social events are organized in order to mix Pharmacy and CPS students and to have a nice time together. Fun activities are organised such as doing escape rooms and going laser tagging to get to know your fellow HPPS members and build a community.

### HPPS Committee

The HPPS committee provides communication between honours students, and between students and the coordinator. They keep an overview on what is being organised and compose committees to organise new activities. Activities include symposia, thematic events and social events. The HPPS committee keeps track of what projects are ongoing (you can email new projects to [hppsprojects@uu.nl](mailto:hppsprojects@uu.nl)). They are also responsible for communicating this to the entire group. If needed, they provide help. The HPPS committee is also in charge of the agenda. They communicate changes in schedule, and keep an electronic agenda with all relevant (HPPS and SHA) activities. The committee communicates with the student using several ways: short updates during thematic events and update meetings, as well as the monthly HPPS bulletin mailed to all students. For more information about the HPPS Committee, you can always contact them: [hppscommittee@uu.nl](mailto:hppscommittee@uu.nl)

## HPPS Events

### Interview

## Edwin Pietersveld

CPS Student, 2nd year



"My motivation to join the honours programme: The bachelor CPS already offers a wide range of courses. But I was still looking for more extracurricular challenges and opportunities to go more in-depth on topics that matched my personal interest. The Honours Programme of Pharmaceutical Sciences (HPPS) offers me the freedom to explore my topics of interest and set up my own projects. I am certainly not afraid to admit that I do not know everything and HPPS is an excellent opportunity for me to develop my skills. Not only am I able to work on my scientific skills, but also aspects like social skills. The HPPS community is filled with people who want to go the extra mile and find satisfaction in achieving the goals they set for themselves. Therefore, it is always easy to find partners to team up with to start a project. So far I organised two symposia in the past year for HPPS and it is a very rewarding process. To be able to cooperate smoothly with your team to deliver a nice final product, a full day of people just sharing their love and interest for science with each other, was my motivation to arrange these events.

My motivation to join the HPPS committee: I have always had a passion for setting up events and actually contributing to organisations. As soon as I saw there was a position opening up for the HPPS committee, I immediately applied. Not only because of my love for being part of committees, but also because I knew that it would be a valuable addition to my experience as functioning in a team. Although, I am only just beginning as a member of the HPPS, I know it's a step in the right direction of pursuing my career".

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## SHA - Science Honours Academy



Interview

### Doortje Böhm

Member board SHA and Pharmacy Student, 3rd year

"I chose to follow the Honours Programme at the end of my first academic year of Pharmacy. The main reason for me to do so was that I was looking for something besides my regular programme, something more challenging. At the information event for new Honours students, a group of students of the second year told about their project in which they developed a new delivery method, namely a lollipop, especially for kids. I remember that this made me feel enthusiastic and willing to contribute to such projects as well!

Besides the projects of Honours programme of Pharmaceutical Sciences, I think the SHA part of the Honours Programme is also very educational. This part of Honours gives you the opportunity to expand your knowledge instead of only deepening. The SHA introduces you to topics of different disciplines within the beta faculty. The masterclass about LaTeX exemplifies this the most for me, I never worked with this software programme before and due to the interdisciplinary character of SHA, this computing science subject came to my attention which was very useful for me.

After a lot of educational and enjoyable activities of the SHA, I became interested in being a member of the SHA Student Board. Especially because this gave me the chance to develop some organizational and communication skills besides the scientific skills from a beta study. Additionally, I met some new people from different studies who were also following the Honours programme and were willing to become a member of the board with me. I do not regret this choice, because it is the most educational experience for me so far!"

## SHA - Science Honours Academy

Extracurricular - Pharmacy and CPS

The Science Honours Academy is the overarching organisation of the Honours Programme of all studies within the Faculty of Sciences at Utrecht University. Besides Pharmacy and CPS, the studies Biology, Chemistry, Computer Science, Information Science, Mathematics, Molecular Life Sciences and Physics are a part of the SHA-community. The aim of the Science Honours Academy is to stimulate interdisciplinary collaboration, since interdisciplinarity is highly appreciated in the Faculty of Science. It will give you the opportunity to deepen and broaden your knowledge, to get you acquainted with research at an early stage of your studies, to have the chance to explore across the borders of your discipline, and to gain international experience.

The SHA regularly organises a variety of minor and major events. These events are organised on a "for students, by students"-basis. Students in the SHA may

be organised into committees that organise some event. These events can have various subjects, e.g. academic skills, interdisciplinary working methods, international experience, etc. Some more information on different activities and committees may be found on the next page. Attending and organising these events contribute towards a student's completion of the programme.

For both Pharmacy and CPS this part of the programme is similar and 7,5 ECTS have to be gathered, as mentioned in the part 'Structure Honours Programme'. These 7,5 ECTS can be earned by completing all categories in the Category system of the SHA. The Category system divides the SHA programme up in 5 parts that all need to be completed in order to pass and automatically be awarded 7,5 ECTS. You complete a category by doing activities mentioned in that category. Each activity grants a certain number of points; once enough points in a category have been gathered the category is complete. The categories and their related activities are listed on the next page.

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## SHA - Category system

Extracurricular - Pharmacy and CPS

| Category                     | Points | Activities (awarded amount of points)  |
|------------------------------|--------|--|
| 1 Portfolio                  | 2      |  |
| 2 Interdisciplinary Projects | 2      | Interdisciplinary project (2)<br>Custom interdisciplinary project (1-2)  |
| 3 International Experience   | 6      | International trip (6)<br>Event with international focus (1-6)   |
| 4 Educational Events         | 25     | Masterclass (5)<br>National trip (3)<br>Symposium (2)<br>Interdisciplinary project poster presentations (1)<br>non-SHA event (1-10)<br>International trip committee (15)<br>Interdisciplinary project committee (10)   |
| 5 Committees/Social          | 6      | International trip committee (5)<br>Interdisciplinary project committee (5)<br>Masterclass committee (5)<br>National trip committee (5)<br>Symposium committee (5)<br>Excursion committee (5)<br>Pub quiz committee (5)<br>Reception (Borrel) committee (5)<br>Excursion (3)<br>Pub quiz (2)<br>Borrel (1) |

Please bear in mind: these SHA points do not equal ECTS.

Every month there is a newsletter that is sent to all members of the Honours Programme with the upcoming events and other important messages. On the website of the Science Honours Academy you can find more information as well: <https://uu.nl/sciencehonours>.

Examples of events are listed in the text boxes.

### International and national trip

The international trip is an annual week-long trip to a foreign city. During this week visits are made to the university in the city and various companies situated there. There is also a national trip (educational category) that is organised two to three times each year. This is a day trip in which we visit a company inside the Netherlands with involvement in multiple fields of Beta-Sciences (example: Philips, Shell etc.).

## SHA - Category system

### Symposia and Masterclasses

Symposia are organised multiple times every year and during these symposia one particular topic is discussed on the basis of multiple different speakers from that discipline. Masterclasses are organised two or three times a year. A masterclass is a two-evening workshop on an academic skill useful to every student of SHA.



### Interdisciplinary projects

The interdisciplinary project is a project where students from different disciplines are organised in small groups to research some interdisciplinary subject. Students are encouraged to find common ground between their discipline and other disciplines and to find a combined approach to solve a specific problem.

### Social activities

Almost every month there is a social activity organised by (committees of) the SHA, which can be a 'borrel', an excursion or a pub quiz. The aim of these activities is to meet fellow students from different disciplines within the SHA and have a good time together! The excursion about painting 'Bob Ross'-style is pictured below.





A study at the university is varied and challenging. However, people differ and therefore we offer an Honours Programme to students who prefer and can handle even more broadening and deepening in their studies. Do you want to learn more and develop your talents to the utmost? Perhaps the Honours Programme Pharmaceutical Sciences suits you.

# Application procedure



## Application procedure

First year Pharmacy or CPS students can apply to join the honours programme.

Has all of this information sparked your interest and would you like to join the Honours Programme?

If you do, you will have the opportunity to apply for the selection procedure when the coordinator takes applications in March. You will be notified when the application procedure starts. When you have an average grade of 7.5 or higher and a good motivation, you can assume that you will be eligible for HPPS. However, even with a lower grade but an excellent motivation you might still be suited.

For the time being, you can read some additional info on the application below. The procedure for Pharmacy students differs slightly from that for CPS students.

The difference lies in the documents that you need to submit to the coordinator.

Pharmacy students will need to send

- a motivation letter (approximately 500 words)
- marks obtained in periods 1 and 2 (an excerpt from osiris will do)
- final vwo-marks (or grades of other prior education, like hbo)
- one or two educational products that you (co-)wrote (e.g. the result of a Pharmacy course or your 'profielwerkstuk').

CPS students will only have to submit

- a motivation letter
- marks obtained in periods 1 and 2.

We would like to welcome you!

| General timeline of the application procedure |             |
|---|-------------|
| First introduction                            | September   |
| First invitation                              | End January |
| Personal invitation based on grades           | Early March |
| Information market                            | Mid March   |
| Deadline applications                         | End March   |
| Selection                                     | April       |
| Results/Invitation                            | May/June    |
| Unofficial start new HPPS members             | June        |

July 2019; Edition: Faculty of Science; Production: Ellen Broekhuizen, Loes van Dijk, Roos Enterman, Lotte Schoonderwoerd en Regina Voss; Photography: Tim Laming, Merel de Boer, Sander Lamme, Edwin Pietersveld, Dirk Rijkers, Doortje Böhm, Julia van Dommel, Lotte Schoonderwoerd, Kees Rutten, Ivar Pel and Regina Voss. This brochure has been developed with care. Study programmes and regulations are continuously developing. The content reflects the current state of affairs.