

Choose the right courses in 6 steps

The way you choose your courses and enroll for the courses at Faculty of Science, Utrecht University will certainly differ from the procedure you are used to at your home institution. It is very important to know that you already have to select your courses some months prior to the start of your possible stay at UU. It is very difficult, sometimes impossible, to make any changes afterwards. This document guides you to pick the right courses. Please read this document carefully before sending in the course registration form!

Here is how it works:

Almost all courses of Utrecht University are worth 7,5 ECTS.

Each semester consists of two teaching blocks of 10 weeks. The first semester is divided in block 1 and block 2. In each block you generally follow two courses of each 7,5 ECTS.

Academic year			
Semester 1		Semester 2	
Block 1	Block 2	Block 3	Block 4
Course 1	Course 1	Course 1	Course 1
Course 2	Course 2	Course 2	Course 2

Therefore we ask you to choose two courses every block. Following three courses in a block is not possible; the study load will be very high and schedules will very likely clash. Master courses may be taught in a semester.

You would need to follow 4 courses of 7,5 ects each to meet the requirements per semester. This is considered a normal study load.

On the course registration form we ask you to fill in the courses you would like to follow. Please choose two courses per block and, optional, select one back-up course per block. Please note that you have to keep in mind some rules and regulations while choosing the courses. You will be guided through these rules and regulations by following the next steps:

Step 1: Check course offerings of the Faculty of Science UU

Check the course offerings of Utrecht University on the [website](https://osiris.uu.nl/osiris_student_uuprd/OnderwijsCatalogus.do).
https://osiris.uu.nl/osiris_student_uuprd/OnderwijsCatalogus.do

First narrow down your search:

- *Faculty* > choose Faculty of Science
- *Language of Instruction* > choose English

These are all the English taught courses of the Faculty of Science. More information about courses from other faculties will be given at 'step 5'.

Note:

The majority of **Biology** and Pharmacy courses are **not** open to exchange students. Chemistry, Physics, Mathematics and Computer Science (bachelor and master) courses of **7,5 ECTS or more** are available except for

- Stochastic and Financial Mathematics (SFM) programme, if not being part of the mastermath programme or at UU
- Industrial and Applied Mathematics (IAM) programme
- Experimental Physics when taught outside the UU
- Theoretical Physics when taught outside the UU

Dutch taught courses are only open for native speakers.

You are allowed to do master courses if you are a bachelor student, but take into account that the level is much higher and your prerequisite knowledge may not be as requested. See also Step 3.

Check your individual course offer. At *course module/name* fill in the appropriate code:

- WIS% = Mathematics
- INFO% = Computer Science
- NS-% = Physics
- SK-% = Chemistry
- FA-CPS% = Pharmacy

Please remember that only courses of 7,5 ECTS or more are open to exchange students.

Narrow down your search again: choose your starting block period.

Look at the information under *Starting block*

- semester 1 = block 1 and block 2 or SEM1
- semester 2 = block 3 and block 4 or SEM2
- mastercourses may use codes 1-GSNS or 3-GSNS (semester 1 or semester 3 for Natural Sciences)
- If you see a letter combination, e.g. W19C, this usually mean that it is a full-time intensive course during one or two weeks. These courses cannot be combined with other courses.

Notes:

- For master mathematics courses you can also check the following website:
<https://elo.mastermath.nl/?lang=en>
 This is a nationwide programme. Courses may be taught at different universities. So there may be extra travelling involved.
- Research projects or writing a thesis also have a course code but are not considered to be a course. Doing **research** or writing a **thesis** is only possible if you have found a supervisor at your home university and at Utrecht University.

Step 2: Check course details

Click on a course module to get the course details.

Minor
Course module

Academic year: 2016

Course module/name: SK-%

Also search in description

Show: All course modules
 Course modules for which you can register
 Tests for which you can register

Teaching period in which the course begins: []

Time slot: No preference

Category / Level: No preference

Course type: No preference

Faculty: of Science

School / Programme: No preference

Lecturer: []

Student taking subsidiary courses: No preference

Language of instruction: English

The following 45 course modules meet the criteria you have entered.

Click the course module to show the course module information

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Course module	Brief name	Starting block	Credits
SK-MBARNMR	Advanced Biomolecular NMR	W19C	3 ECTS
SK-MBMSTC4	Mol.and Cellular Life Sc:Master Course 4	W20A	3 ECTS
SK-BORC3	Organic Chemistry 3	3	7,5 ECTS
SK-MTOYM	Toy Models	4	7,5 ECTS
SK-BKATA	Catalysis	1	7,5 ECTS
SK-MBAPC	Advanced Protein Crystallography	W5A	3 ECTS
SK-MBMSTC2	Mol.and Cellular Life Sc:Master Course 2	W1A	3 ECTS
SK-MRES	Master Research Scheikunde	JAAR	60 ECTS
SK-MBMSTC3	Mol.and Cellular Life Sc:Master Course 3	W12A	3 ECTS
SK-BFYC3	Advanced Physical Chemistry	3	7,5 ECTS
SK-BTDFI	Applied Density Functional Theory	4	7,5 ECTS
SK-MAKC	Adsorption, Kinetics and Catalysis	3	7,5 ECTS
SK-BNANO	Nanomaterials	1	7,5 ECTS
SK-MASPN	Advanced Spectroscopy of Nanomaterials	1, 2	7,5 ECTS
SK-BTOYM	Toy Models	4	7,5 ECTS
SK-MBPBMS	Proteomics and Biom Mass Spectro	W39A	3 ECTS
SK-MSTAGE	Internship	4	40 ECTS
SK-MLSEM14	Life sciences seminar series	MA-LS	0,75 ECTS
SK-MINTERN	Internship	4	30 ECTS
SK-MBMSTC1	Mol.and Cellular Life Sc:Master Course 1	W41B	3 ECTS
SK-MNCCN	Nanomaterials: Cata, Coll, Nanophotonics	1	7,5 ECTS
SK-MPC3	Advanced Physical Chemistry	3	7,5 ECTS
SK-B1BIOC	Bioorganic Chemistry	2	7,5 ECTS
SK-BTHESIS	Bachelor thesis Chemistry	JAAR	15 ECTS
SK-BCHDO	Sc. & Techn. for sustainable development	4	7,5 ECTS
SK-MOSS	Advanced Organic Synthesis	4	7,5 ECTS
SK-MICLS	Concepts in Cellular Life Sciences	W36C	3 ECTS
SK-MIMLS	Concepts in Molecular Life Sciences	W36C	3 ECTS
B-MPCEMD	Primate social skills	W21A	2,5 ECTS
SK-MBAMS	Crit. reading mass spec. rel. res. art.	W49C	1,5 ECTS

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If you do not see the English version of the course description directly, please click at the English flag. If you were inactive too long you have to fill in all your choices again.

The mentioned level is an indication of the difficulty of the course:

- Level 1 - 1st year Bachelor Introductory
- Level 2 - 2nd year Bachelor Elaborating
- Level 3 - 3rd year Bachelor Advanced
- Level M - Master level

International Office – Faculty of Science UU

<http://www.uu.nl/en/organisation/faculty-of-science/education/international-office>
 e-mail: science.internatoff@uu.nl




Look at the *Content* of the course carefully to find courses that fit your study programme or interest. Make a list of interesting courses.

Step 3: Check course goals, content, entry requirements

If you are interested in a course, you first have to check if the course is suitable for you. Check course goals, content, prerequisite knowledge and/or the entry requirements of the course. Your Transcript of Records has to prove that you fulfill the prerequisites. If you do not have the right background, you cannot be enrolled for the course!

SK-MPC3

Advanced Physical Chemistry

Course info	Schedule
<p>Course code SK-MPC3</p> <p>ECTS Credits 7.5</p> <p>Category / Level M (Master)</p> <p>Course type Course</p> <p>Language of instruction English</p> <p>Offered by Faculty of Science; Graduate School of Natural Sciences;</p> <p>Contact person dr. B.H. Erne</p> <p>Telephone +31 30 2532934</p> <p>E-mail b.h.erne@uu.nl</p> <p>Lecturers</p> <p>Lecturer dr. B.H. Erne Other courses by this lecturer</p> <p>Lecturer dr. A. Petoukhov Other courses by this lecturer</p> <p>Lecturer dr. G.J. Vroege Other courses by this lecturer</p>	<p>Teaching period 3 (06/02/2017 to 21/04/2017)</p> <p>Teaching period in which the course begins 3</p> <p>Time slot D: WED-afternoon, Friday</p> <p>Study mode Full-time</p> <p>Remark The course will be taught in English.</p> <p>Enrolment period from 30/10/2016 up to and including 27/11/2016</p> <p>Course application process Osiris</p> <p>Enrolling through OSIRIS Yes</p> <p>Enrolment open to students taking subsidiary courses No</p> <p>Pre-enrolment No</p> <p>Post-registration Yes</p> <p>Post-registration open from 23/01/2017 up to and including 24/01/2017</p> <p>Waiting list Yes</p> <p>Course placement process niet van toepassing</p>
<p>Course goals </p> <p>At the end of the course students will be able to independently study and apply literature on statistical thermodynamics, polymers, colloids, and interfaces.</p> <p>Content</p> <p>The Statistical Thermodynamics module deals with non-ideal gases, liquids, solids, and quantum gasses (Fermi-Dirac and Bose-Einstein statistics). During the Interfaces module, wetting, adsorption, surface-active substances, charged interfaces and experimental methods for studying interfaces, as well as their applications will be discussed. Finally, in the Colloids and Polymers module, Flory-Huggins theory of polymer solutions, colloidal synthesis, Brownian motion, diffusion, sedimentation, interaction between colloidal particles, colloidal stability, and the applications of these concepts will be treated. This course forms a bridge towards other master courses, including "Colloid Science" (SK-MCS) and "Soft Matter Theory" (NS-T453M).</p> <p>This course is the same as the advanced bachelor level course "Fysische Chemie 3" (SK-BFYC3).</p> <p>Entry requirements</p> <p>You must have a valid study entrance permit</p> <p>Prerequisite knowledge </p> <p>Before choosing this course, you are recommended to have the proper background knowledge. If in doubt, contact the course coordinator to discuss whether this your own background knowledge is sufficient.</p> <p>Prerequisite knowledge can be obtained through </p> <p>Knowledge of classical thermodynamics (state functions, chemical potential, Gibbs-Duhem, Maxwell relations...), basic concepts of statistical thermodynamics (Boltzmann distribution, thermodynamic ensembles, partition function, Nernst heat theorem), basic mathematical skills (integration, differentiation), basic concepts in physical chemistry (Van der Waals fluids, regular solutions, interfacial tension, electrical screening in electrolyte solutions).</p>	<p>Required materials</p> <p>Dictation</p> <p>Lecture notes are sold for the "interfaces" part of the course (cost around 10 euro).</p> <p>Book</p> <p>For the "colloids" part of the course, the following book will be lent to the participants: D.H. Everett: Basic Principles of Colloid Science (Royal Soc. of Chemistry, Cambridge, 1994).</p> <p>Book</p> <p>For the "statistical thermodynamics" part of the course, the following book will be lent to the participants: B. Widom, Statistical Mechanics - a concise introduction for chemists (Cambridge University Press, 2002).</p> <p>Recommended materials</p> <p>Software</p> <p>Geen software nodig</p> <p>Instructional formats (attendance required)</p> <p>Lecture/seminar (Required)</p> <p>Tests</p> <p>Final result</p> <p>Test weight 100</p> <p>Minimum grade 6</p>

International Office – Faculty of Science UU

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Step 4: Check time slot

Have a look at the time slot in which the course is offered. The time slot indicates on which days the lectures might take place. This is a very important part of selecting your course package. Within a teaching block you cannot choose two courses with the same time slot. If two time slots are indicated for one course (i.e. Time slot A and C), that means that the course is scheduled in *both* time slots and that you can't choose another course with time slot A and/or C.

The time slot model:

	Monday	Tuesday	Wednesday	Thursday	Friday
09.00-10.00	A	B	A	C	D
10.00-10.45					
11.00-12.00					
12.00-12.45					
13.15-14.15	C	C	D	B	D
14.15-15.00					
15.15-16.15					
16.15-17.00					
17.15-18.15	C	A	D	B	D
18.15-19.00					

Step 5: Courses from other faculties

We advise you to choose as much courses as possible from the Faculty of Science. However, it is possible to choose courses from other faculties. If you want to do so, check their course offer [here](#).

<https://www.uu.nl/en/education/exchange-and-visiting-students/course-information>

Please keep in mind the following:

- You can do only 50% of your courses (15 erts per semester) outside the Faculty of Science.
- You **are not allowed** to choose courses from the University College Utrecht and University College Roosevelt.

Some courses at other faculties might not be open to students from other faculties, might have a selection committee or the other faculty might give preference to their own students. Therefore it is recommended to only choose courses from other faculties if you cannot find suitable courses in our faculty.

Step 3 and 4 about entry requirements and time slots are also applicable when selecting courses from other faculties.

Step 6: Check your choices

Now it is time to build up your programme. Choose your courses and do a last check:

- Do you have 30 ECTS per semester?
- Do you meet the entry requirements and do you have the prerequisite knowledge?
- Did you choose courses with different time slots?
- Did you choose at least 50% of your courses at the faculty of Science in a semester/year?
- Did you select one alternative course per block?

If your answers to all the questions above are YES, go ahead and fill in the course registration form!