

Annex B: Pharmacy 2019-2020

Art 2.1 – Admission

For programmes where only specific pre-university profiles give admission:

THE NETHERLANDS:

- pre-university education certificate awarded under the old system (*vwo op basis van vakkenpakket*)
- pre-university education certificate awarded under the old subject clusters (vwo final examination taken under the requirements of the Higher Education Act as it read until 31 July 2007).
- gymnasium diploma awarded under the Higher Education Act 1876 (*Hoger Onderwijswet 1876*)
- secondary school (*hbs*) diploma awarded under the Secondary Education Act (*Middelbaar Onderwijswet*)

INTERNATIONAL BACCALAUREATE

Transcript of the Diploma of the international baccalaureate awarded by the International Baccalaureate Office in Geneva.

SURINAM

Certificate pre-university education.

2. Anyone who does not have a diploma with the pre-university profile 'Natuur&Gezondheid' with physics or 'Natuur&Techniek' with Biology (which immediately grants admission to the study programme), but does have an equivalent diploma which grants admission on the basis of the Act or paragraph 1, may register for the study programme only after demonstrating that he¹ has sufficient knowledge, at the level of the final pre-university education examination, of the following subjects of the required pre- university profile:
 - mathematics A or B
 - physics
 - chemistry
3. Anyone who does not have a diploma with the pre-university education profile (which gives direct admission to the study programme), but who does have a first-year diploma awarded by a university of applied sciences (*'hogeschool'*), may register for the study programme only after demonstrating that he has sufficient knowledge, at the level of the pre-university education final examination, of the following subjects:
 - mathematics A or B
 - physics
 - chemistry

art 2.3 – Entrance examination

The entrance examination referred to in art. 7.29 of the Act, concerns the following subjects at the level indicated:

- Mathematics A or B at pre-university level
- Physics at pre-university level
- Chemistry at pre-university level
- Biology at pre-university level
- English at pre-university level

art. 3.3 – Language in which the degree programme is facilitated

The College of Pharmaceutical Sciences (CPS) is an international study track. English is the main language because this language is mostly used in the scientific research in the pharmaceutical sciences, and to stimulate the formation of a community. The study track CPS is meant to attract international students as well to create an international community. Besides that, students are stimulated to follow a part of their free choice education abroad.

¹ For the sake of readability, 'he' is used in the text. Where it says 'he', of course, 'she' can also be read.

art 3.5 – Major

1. The degree programme encompasses a major with a credit load of 135 credits, related to Pharmaceutical Sciences. Of these, the courses indicated in 1 of the Annex are required. The other courses of the major Biology (67,5 credits) are chosen by the student from the courses indicated in 2 and 3 of the Annex. For the track Molecular Life Sciences, the student chooses the other courses of the major (60 credits) from the courses indicated in 5 of the Annex.
2. A thesis is included in the major, with a credit load of at least 7.5 credits, whereby the student has the possibility to do a concluding project as proof of competency that combines the required knowledge, skills and attitudes.⁸

art. 3.6 – Double degree program

No arrangement

art. 3.9 – Honours Programmes in the Science Honours Academy; Biology and MLS

1. The composition of the Honours programme is listed in the Annex under part 5.
3. Admission for the Honours Programme will be based on:
 - Motivation,
 - Study results, a weighted average mark of at least 7.5 has been earned and at least one mark higher than 8.0 has been earned.
 - Pre-university results,
 - Educational product

For more information see:

<http://students.uu.nl/beta/farmacie-b/onderwijs/honours/honoursprogrammas-beta> and more specific: <https://sciencehonours.sites.uu.nl/students/pharmacy/>

art. 4.6 – ending of courses for international students for the Christmas holiday

See Annex under part 6.

art. 5.5 – re-sit: additional or substitute test

A student who is unable to take a test due to illness should inform the course coordinator and the Student Desk. Personal circumstances beyond his/her control should be reported to the study advisor.

art. 5.10 – period of validity

Partial tests and assignments that were passed will lose their validity if the course within which they were taken was not passed. The examiner may grant the student exemption or impose an substitute assignment for parts of a course other than (partial) tests.

art. 6.2 – cum laude classification

The 'cum laude' distinction will be awarded to the Bachelor's Degree examination if each of the following conditions has been fulfilled:

- a weighted average mark of at least 8,0 has been earned for the courses of the Bachelor's Degree Programme and a mark of at least 8,0 has been earned for the bachelor thesis/bachelor research project;
- in the course of the studies, not more than 1 course was repeated;
- exemptions that do not count have been obtained for not more than 60 credits;
- the Board of Examiners has not taken the decision (as referred to art. 5.14, paragraph 4 under b) stating that fraud/plagiarism has been ascertained and that the student therefore is not eligible for a positive degree classification (cum laude);
- has passed the final examination of the Bachelor's Degree Programme within four years.

art. 8.5 – Transitional arrangement

See Annex under part 6.

Annexes

Annex part 1

1a: Major Pharmacy, track Pharmacy

| onderdelen major Farmacie, studiep pad Farmacie | | | |
|---|--------------------|---|-----------|
| niveau | cursus code | cursus | EC |
| 1 | FA-BA101 | Inleiding in de farmacie | 7,5 |
| 1 | FA-BA102 | Chemie van geneesmiddelen | 7,5 |
| 1 | FA-BA103 | Toedienen van geneesmiddelen | 7,5 |
| 1 | FA-BA104 | Werking van geneesmiddelen | 7,5 |
| 1 | FA-BA105 | Kinetiek van geneesmiddelen | 7,5 |
| 1 | FA-BA106 | Therapie met geneesmiddelen | 7,5 |
| 1 | FA-BA107 | Onderzoek naar geneesmiddelen | 7,5 |
| 1 | FA-BA100 | Academische vaardigheden & professioneel gedrag | p.m. |
| 2 | FA-BA200 | Tutoraat | p.m. |
| 3 | FA-BA300 | Tutoraat | p.m. |
| 2 | FA-BA201 | Infectie en afweer | 7,5 |
| 2 | FA-BA202 | Productzorg | 7,5 |
| 2 | FA-BA203 | Neurologie | 7,5 |
| 2 | FA-BA204 | Biologische geneesmiddelen | 7,5 |
| 2 | FA-BA205 | Hormonale aandoeningen | 7,5 |
| 3 | FA-BA301 | Psychiatrische aandoeningen | 7,5 |
| 3 | FA-BA302 | Cardiovasculair systeem | 7,5 |
| 3 | FA-BA303 | Autoimmunititeit | 7,5 |
| 3 | FA-BA304 | Oncologie | 7,5 |
| 3 | FA-BA305 | Dermatica en huidaandoeningen | 7,5 |
| 3 | FA-BA380 | Bachelorwerkstuk | 7,5 |
| <i>Voor die studenten, die daartoe in de gelegenheid gesteld worden op basis van een besluit van de Examencommissie:</i> | | | |
| 1 | FA-131 | Farmaceutisch Nederlands | 7,5 |

1b: Major Pharmacy, track Pharmaceutical Sciences

| Verplichte onderdelen studiep ad Farmaceutische Wetenschappen | | | |
|--|--------------------|---------------------------------------|-----------|
| niveau | cursus code | cursus | EC |
| 1 | FA-BA101 | Inleiding in de farmacie | 7,5 |
| 1 | FA-BA102 | Chemie van geneesmiddelen | 7,5 |
| 1 | FA-BA103 | Toedienen van geneesmiddelen | 7,5 |
| 1 | FA-BA104 | Werking van geneesmiddelen | 7,5 |
| 1 | FA-BA105 | Kinetiek van geneesmiddelen | 7,5 |
| 1 | FA-BA106 | Therapie met geneesmiddelen | 7,5 |
| 1 | FA-BA107 | Onderzoek naar geneesmiddelen | 7,5 |
| 3 | FA-BA311 | Ontwikkelen van nieuwe geneesmiddelen | 7,5 |
| 3 | FA-BA381 | Bachelorwerkstuk | 15 |
| 1 | FA-BA100 | Academische vaardigheden & Farmacie | p.m. |
| 2 | FA-BA200 | Tutoraat | p.m. |
| 3 | FA-BA300 | Tutoraat | p.m. |

Keuzeonderdelen studiepad Farmaceutische Wetenschappen

Cursussen aangeboden door het departement Farmaceutische Wetenschappen of gelijkwaardige cursussen bij andere opleidingen. Bij de keuze gelden de volgende regels:

1. ten minste 7,5 studiepunten moet behaald worden met cursussen op elk van de gebieden van de productzorg en de chemische analyse of bioanalyse
2. ten minste 15 studiepunten op het gebied van ziekten en geneesmiddelen
3. ten minste 22,5 studiepunten aan keuzeonderdelen binnen de major en profileringsruimte op niveau 3
4. Op niveau 2 moet voor ten minste 15 studiepunten aan cursussen worden gekozen. Dit aantal mag worden verminderd in de mate waarin het minimum op niveau 3 wordt overschreden.

Annex part 2: Compulsory courses major College of Pharmaceutical Sciences

| level | course code | course | EC |
|-------|-------------|---|------|
| 1 | FA-CPS102 | Behaviour of the drug in the human body | 15 |
| 1 | FA-CPS103 | The drug and the cell | 15 |
| 1 | FA-CPS104 | The drug molecule | 15 |
| 2 | FA-CPS211 | Intercellular communication | 7,5 |
| 2 | FA-CPS221 | Analytical methods, introduction | 7,5 |
| 3 | FA-CPS322 | Pharmaceutical biotechnology | 15 |
| 3 | FA-CPS390 | Portfolio | p.m. |

Annex part 3: Courses eligible for choice, major College of Pharmaceutical Sciences

| level | course code | course | EC |
|-------|-------------|--|-----|
| 1 | FA-CPS101 | Epidemiology and Clinical Development of Drugs | 15 |
| 2 | FA-CPS212 | Immunopharmacology | 7,5 |
| 2 | FA-CPS213 | Psychopharmacology | 7,5 |
| 2 | FA-CPS222 | Chemical techniques | 7,5 |
| 2 | FA-CPS223 | Cellular and molecular techniques | 7,5 |
| 3 | FA-CPS380 | Research project | 30 |

For the choice the following rules apply:

1. A choice must be made between Immunopharmacology of Psychopharmacology
2. A choice must be made a between Cellular and molecular techniques of Chemical techniques

Division optional course profile College of Pharmaceutical Sciences:

1. At level 3 there must be chosen courses for at least 22,5 ECTS
2. At level 2 there must be chosen courses for at least 7,5 ECTS. This amount can be reduced to the extent to which the minimum at level 3 is exceeded.

Annex part 4 Composition of the Science honours programme

| | |
|---|----------|
| BETA-B2HRI Extracurriculaire activiteiten | 15 EC |
| Honours-level cursussen of extra opdrachten bij reguliere cursussen | 15 EC |
| Honours thesis or CPS research project | 15-30 EC |

Honours level cursussen aangeboden binnen het curriculum Farmacie:

| | |
|--|--------|
| FA-CPS211 Intercellular communication | 7,5 EC |
| FA-CPS212 Immunopharmacology | 7,5 EC |
| FA-CPS213 Psychopharmacology | 7,5 EC |
| FA-CPS221 Analytical methods, introduction | 7,5 EC |
| FA-CPS222 Chemical Techniques | 7,5 EC |
| FA-CPS223 Molecular en Cellular Techniques | 7,5 EC |
| FA-CPS311T Organic Chemistry T | 7,5 EC |
| FA-CPS311P Organic Chemistry P | 7,5 EC |
| FA-CPS312T Medicinal Chemistry | 7,5 EC |
| FA-CPS312P Medicinal Chemistry | 7,5 EC |
| FA-CPS322 Pharmaceutical Biotechnology | 7,5 EC |
| FA-CPS333 Pharma and Nutrition | 7,5 EC |
| FA-CPS335 Proteins and Disease | 7,5 EC |
| FA-CPS336P Psychoneuropharmacology P | 7,5 EC |
| FA-CPS336T Psychoneuropharmacology T | 7,5 EC |
| FA-CPS338 Advanced Pharmacoepidemiology | 7,5 EC |
| FA-CPS339T Advanced Immunopharmacology T | 7,5 EC |
| FA-CPS339P Advanced Immunopharmacology P | 7,5 EC |
| FA-CPS370 Honours literature thesis | 7,5 EC |

For more information:

<http://students.uu.nl/beta/farmacie-b/onderwijs/honours/honoursprogrammas-beta>

Annex part 5: Courses that international incoming students can finish in period 2 before Christmas break starts

| Cursussen die internationale inkomende studenten in periode 2 voor de onderwijsvrije periode rond kerst kunnen afronden | | | |
|---|-------------|--|-----|
| niveau | cursus code | cursus | EC |
| 2 | FA-CPS221 | Analytical methods, introduction | 7,5 |
| 3 | FA-CPS370 | Honours Literature Thesis | 7,5 |
| Extra opdrachten aansluitend aan de cursussen in periode 1 | | | |
| 2 | FA-CPS101 | Epidemiology and clinical development of drugs | 7,5 |
| 2 | FA-CPS212 | Immunopharmacology | 7,5 |
| 2 | FA-CPS213 | Psychopharmacology | 7,5 |
| 3 | FA-CPS339 | Advanced immunopharmacology | 7,5 |

Annex part 6: Transitional arrangement:

These transitional arrangements are valid until 31 August 2020.

Voor studenten die in het studiejaar 2015-2016 en eerder waren ingeschreven voor de bacheloropleiding Farmacie blijft de opleiding zoals beschreven in de desbetreffende Onderwijs- en Examenregeling, laatstelijk vastgesteld 1 september 2015, van kracht, onder de volgende condities:

Het onderwijs van het 'oude stijl' curriculum wordt volgens tabel 6a en 6b afgebouwd:

6a: Bachelor courses 'oude stijl'

| Cursus | Aangeboden t/m studiejaar |
|---------------------------|------------------------------------|
| FA-301 Geneesmiddelopname | 2019-2020, 1 ^e semester |

6b: Aanbod en toetsing van vaardigheden behorende bij de bachelor 'oude stijl'.

| Cursus | Aangeboden t/m studiejaar |
|--|----------------------------------|
| R-101 Diagnostische rekentoets | 2016-2017 |
| R-104 Schriftelijke rekentoets | 2016-2017 |
| R-200 Schriftelijke rekentoets | 2017-2018 |
| R-202 Farmaceutische rekentoets | 2017-2018 |
| R-208 Farmaceutische rekentoets | 2017-2018 |
| R-301 Farmacokinetische rekentoets | 2018-2019 |
| I-208 Beoordeling labjournaal | 2017-2018 |
| M-100 Presentatie, niveau 1 | 2016-2017 |
| M-200 Presentatie, niveau 2 | 2017-2018 |
| M-201 Interview met patiënt (niveau 1) | 2016-2017 |
| M-203 Samenwerkingsgesprek | 2017-2018 |
| M-204 Informerend gesprek | 2017-2018 |
| M-301 Interview met patiënt (niveau 2) | 2018-2019 |
| S-103a Taaltoets | 2016-2017 |
| S-103b Wetenschappelijk taalgebruik | 2016-2017 |
| S-203 Wetenschappelijk abstract | 2017-2018 |
| S-301 Wetenschappelijk samenvatting | 2018-2019 |
| S-306 Advies kwaliteitsprocedure | 2018-2019 |
| L-202 Analyse standaard | 2017-2018 |
| B-101 Bereiden niveau 1 | 2016-2017 |
| B-304 Bereiden niveau 2 | 2018-2019 |
| Ms-107 Toets methodologie | 2016-2017 |
| MA-105 Beoordeling PGO, niveau 1 | 2016-2017 |
| MA-107 Beoordeling PO, niveau 1 | 2016-2017 |
| MA-206 Beoordeling PGO, niveau 2 | 2017-2018 |

In afwijking van het bepaalde in deel 6 kan de examencommissie bepalen dat het onderwijs en de toetsing van een of meerdere onderdelen van het curriculum 'oude stijl' wordt vervangen door de overeenkomstige onderdelen van het curriculum 2016 volgens de equivalentietabel, onder 6c, vervanging onderdelen/cursussen 'oude stijl' door cursussen 'nieuwe stijl', mits de studielast voor de student daardoor niet vergroot.

Indien de vaardigheden niet binnen de toetsing volgens tabel 6b behaald worden, zal de toetsing aan het eind van de bachelor plaats vinden, zodra alle andere onderdelen van de bachelor met voldoende resultaat afgerond zijn.

6c: Equivalentietabel: Vervanging 'blokken oude stijl' door 'cursussen nieuwe stijl'

| Blok oude stijl | Cursus nieuwe stijl |
|---|--|
| FA-101 Apotheker en geneesmiddel | FA-BA101 Inleiding in de Farmacie |
| FA-102 Moleculaire interacties | FA-BA102 Chemie van geneesmiddelen |
| FA-103 Celbiologie | FA-BA104 Werking van geneesmiddelen* |
| FA-104 Fysische en analytische farmacie | FA-BA103 Toedienen van geneesmiddelen |
| FA-105 Intracellulaire communicatie | FA-BA106 Therapie met geneesmiddelen |
| FA-107 Geneesmiddelonderzoek | FA-BA107 Onderzoek naar geneesmiddelen |
| FA-201 Geneesmiddel en patiënt | FA-BA105 Kinetiek van geneesmiddelen |
| FA-200 Geneesmiddelbinding en werking | FA-BA104 Werking van geneesmiddelen* |

| | |
|--|--|
| FA-202 Bereiding en Analyse* | FA-BA202 Productzorg + FA-BA319 bioanalyse |
| FA-203 Informatiebronnen* | S-203 Wetenschappelijk abstract |
| FA-204 Circulatie | FA-BA302 Cardiovasculair systeem |
| FA-206 Infecties | FA-BA201 Infectie en afweer |
| FA-208 Bio-equivalentie* | FA-BA202 productzorg |
| FA-302 Ontstekingen | FA-BA303 Autoimmunititeit |
| FA-303 Farmacologie van het CZS | FA-BA301 Psychiatrie |
| FA-304 Huid en dermatica | FA-BA305 Dermatica en huidaandoeningen |
| FA-305 Biotechnologie | FA-BA204 Complexe geneesmiddelen |
| FA-380 bachelorwerkstuk | FA-BA380 of FA-BA381 bachelorwerkstuk |

- * Ontbrekende studiepunten in de major dienen te worden ingevuld met cursussen die worden aangeboden vanuit het curriculum Farmacie.

In bijzondere gevallen kan de examencommissie aan studenten, bedoeld in deel 6 overgangsmaatregelen, toestemming verlenen tentamens en examens af te leggen volgens de in het eerste paragraaf van deel 6 bedoelde onderwijs- en examenregeling. In al die gevallen waarin de overgangsmaatregel niet voorziet, wordt door de examencommissie beslist.