

An Chomhairle
Mhúinteoireachta

The Teaching Council

Covid-19 Amendment Regulation (CAR) Subject Declaration Form

Chemistry

This Subject Declaration Form allows you to match your degree (and other qualifications if applicable) against the Teaching Council's curricular subject requirements. You must meet the requirements for at least one curricular subject in order to be eligible for registration as a Post-primary teacher, having also completed a programme of Post primary initial teacher education that meets the Council's requirements.

This declaration form should be completed, printed and signed by persons applying for registration as a Post-primary teacher under CAR and forwarded with the CAR-01 (COVID-19 Amendment Regulation) Application Form.

You should complete a subject declaration form for each subject for which you are seeking Teaching Council registration.

The requirements for the curricular subject **Chemistry** are set out on page 2.

For details of all other curricular subjects [click here](#).

Any material errors or misleading declarations made on this form may result in refusal of registration.

Based on this declaration form, your transcripts relating to the curricular subject sought and the transcripts of your initial teacher education qualification, the Teaching Council will confirm if, you will be eligible to register as a Post-primary teacher and which curricular subject(s) will be recorded on the Register of Teachers.

The information you provide on this form is a guide only and will be used to inform the Council's assessment process. The final decision on the suitability of content and credits allocated will be made by the Teaching Council. You will be registered for the curricular subject(s) for which you meet the requirements in full. If you do not meet the requirements in full for any subject you may be registered for the subject for which you are closest to meeting requirements (subject to conditions) as determined by the Council.

In order to meet the registration requirements set down in the Teaching Council [Registration] Regulations in respect of the curricular subject of Chemistry, an applicant must meet **all** of the following criteria:

1

- (a) Applicants must hold a degree-level qualification, with Chemistry studied up to and including third-year level or higher (or modular equivalent).
- (b) The qualifying degree must be equivalent to at least Level 8 on the National Framework of Qualifications (NFQ) and with a minimum pass¹ result in all examinations pertinent to the subject of Chemistry.
- (c) The qualifying degree must carry at least 180 ECTS (European Credit Transfer System) credits (or equivalent) with the specific study of Chemistry comprising at least 60 ECTS credits (or equivalent) and with not less than 10 ECTS credits (or equivalent) studied at third-year level or higher (or modular equivalent).

2

The study of Chemistry during the qualification must show that the holder has acquired sufficient knowledge, skills and understanding to teach the Chemistry syllabus² to the highest level in post-primary education (see www.curriculumonline.ie). To meet this requirement the degree must include the study of all of the following essential areas to a minimum of 40 ECTS credits (or equivalent):

Essential areas of study

- (a) Organic Chemistry³
- (b) Inorganic Chemistry⁴
- (c) Physical Chemistry⁵
- (d) Analytical Chemistry⁶

The remaining 20 ECTS credits (or equivalent) may be in any of the essential areas above or may be drawn from the following optional areas:

Optional areas of study

- (e) Environmental Chemistry⁷
- (f) Materials Chemistry⁸
- (g) Pharmaceutical Chemistry/Biopharmaceutical Chemistry⁹
- (h) Industrial Chemistry¹⁰

1 which includes pass by compensation.

2 as approved by the Minister for Education and Skills, and published by the National Council for Curriculum and Assessment (NCCA).

3 This may include modules in the areas of Structure and Reactivity of Organic Compounds, Functional Group Interconversions, Stereochemistry, Organic Reaction Mechanisms, Aromatic Chemistry, Organic Polymers, or Organic Synthesis.

4 This may include modules in the areas of Main Group Chemistry, Transition Metal Chemistry, Organometallic Chemistry, or Structure and Bonding.

5 This may include modules in the areas of Energetics and Kinetics, Thermodynamics, Chemical Equilibria, Quantum Mechanics or Electrochemistry.

6 This section may be studied as “stand alone” modules in Analytical Chemistry or may be integrated into modules of Inorganic Chemistry, Organic Chemistry or Physical Chemistry. The study of Analytical Chemistry may include Instrumentation in Chemical Analysis and Spectrometry (atomic absorption, ultraviolet, infrared, NMR, mass spectrometry) GC, HPLC, Electrochemical Methods, or Solvent Extraction.

7 This may include modules in the areas of Water Chemistry, Atmospheric Chemistry, or Pollutants in the Environment.

8 This may include modules in the areas of Solid State Chemistry, Crystallography, or Band Structure.

9 This may include modules in the areas of Drug Design, Structure-Activity Relationships, or Synthetic Methods.

10 This may include modules in the areas of Batch Process, Continuous Process, Industrial Safety, or Industrial Case Studies.

3

Laboratory practical work in chemistry must have been completed throughout the degree programme.

4

Applicants must also have completed a programme of post-primary initial teacher education (age range 12-18 years). The programme should include a methodology module(s) on the teaching of a Science-based subject with a minimum of 5 ECTS credits (or equivalent).

Science (Junior Cycle)

An applicant who meets the registration criteria for **Chemistry** will also meet the requirements for the Junior Cycle curricular subject **Science** if he/she has studied a minimum of 10 ECTS credits (or equivalent) in Biology and a minimum of 10 ECTS credits (or equivalent) in Physics.

Name:

Address:

Date of Birth:

DD/MM/YYYY

PPS Number:

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Phone No:

Mobile No:

Email:

Degree Title:

Degree Awarding Body:

Year of award:

Other Relevant Qualification(s) in Chemistry (if applicable):

Title of qualification	Awarding Body	Year of Award

Please answer questions 1-7 below and insert module code(s), module title(s) and ECTS credit values as required.		
1	Is your degree equivalent to a least a Level 8 on the Irish National Framework of Qualifications (NFQ)?	Yes No
2	Does your degree carry a minimum of 180 ECTS credits (or equivalent)?	Yes No
3	Do your studies in Chemistry carry a minimum of 60 ECTS credits (or equivalent)?	Yes No
4	Do your studies in Chemistry include the study of not less than 10 ECTS credits (or equivalent) at third-year level or higher (modular equivalent)?	Yes No
5	Do your studies in Chemistry include the study all of the following essential areas to a minimum of 40 ECTS credits: (a) Organic Chemistry (b) Inorganic Chemistry (c) Physical Chemistry (d) Analytical Chemistry The remaining 20 ECTS credits can be drawn from the areas (a) - (d) above, or from the areas (e) - (h) below.	Yes No Yes No Yes No Yes No
6	Do your studies in Chemistry include the study of 20 ECTS credits in any of the following: (e) Environmental Chemistry (f) Materials Chemistry (g) Pharmaceutical Chemistry/Biopharmaceutical Chemistry (h) Industrial Chemistry	Yes No Yes No Yes No Yes No
7	Do your studies in Chemistry include laboratory practical work?	Yes No

In relation to questions 3, 4, 5 and 6 above, please list below the code(s), title(s) and ECTS credit values for each module studied.

Essential Areas of Study

(a minimum of 40 ECTS credits are required in areas 5(a) - 5(d))

Area of Study: (a) Organic Chemistry		
Module Code	Module Title	ECTS Credit Value

Area of Study: (b) Inorganic Chemistry		
Module Code	Module Title	ECTS Credit Value

Area of Study: (c) Physical Chemistry		
Module Code	Module Title	ECTS Credit Value

Area of Study: (d) Analytical Chemistry		
Module Code	Module Title	ECTS Credit Value

Optional Areas of Study

The remaining 20 ECTS credits (or equivalent) may be in any of the above essential areas, or be drawn from the following optional areas:

- (e) Environmental Chemistry
- (f) Materials Chemistry
- (g) Pharmaceutical Chemistry/Biopharmaceutical Chemistry
- (h) Industrial Chemistry

Area of Study: (e) Environmental Chemistry		
Module Code	Module Title	ECTS Credit Value

Area of Study: (f) Materials Chemistry		
Module Code	Module Title	ECTS Credit Value

Area of Study: (g) Pharmaceutical Chemistry/Biopharmaceutical Chemistry		
Module Code	Module Title	ECTS Credit Value

Area of Study: (h) Industrial Chemistry		
Module Code	Module Title	ECTS Credit Value

Essential Area of Study: Laboratory practical work		
Module Code	Module Title	ECTS Credit Value

Area of Study: Other		
Module Code	Module Title	ECTS Credit Value

Total ECTS Credits in Chemistry	
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Science (Junior Cycle)

An applicant who meets the registration criteria for **Chemistry** will also be deemed to have acquired the competency to teach the **Junior Cycle** curricular subject **Science** if he/she has studied a minimum of 10 ECTS credits (or equivalent) in Biology **and** a minimum of 10 ECTS credits (or equivalent) in Physics.

[Click here](#) to view requirements for Biology and Physics.

If you have studied a minimum of 10 ECTS credits (or equivalent) in Biology and a minimum of 10 ECTS credits (or equivalent) in Physics please list **below the code(s), title(s) and ECTS credit values for each Chemistry and Physics module studied.**

Area of Study: Biology		
Module Code	Module Title	ECTS Credit Value

Area of Study: Physics		
Module Code	Module Title	ECTS Credit Value

I declare that I have completed the studies in **Chemistry** as set out above and that the details that I have entered in the tables above are true and accurate to the best of my knowledge.

Name:

Date: DD/MM/YYYY

Signature:

IMPORTANT

This declaration form should be returned to the Teaching Council with the CAR Amendment Regulation Application Form (CAR-01).