ECTN Chemistry Eurobachelor

Eurocurriculum II Analytical Chemistry

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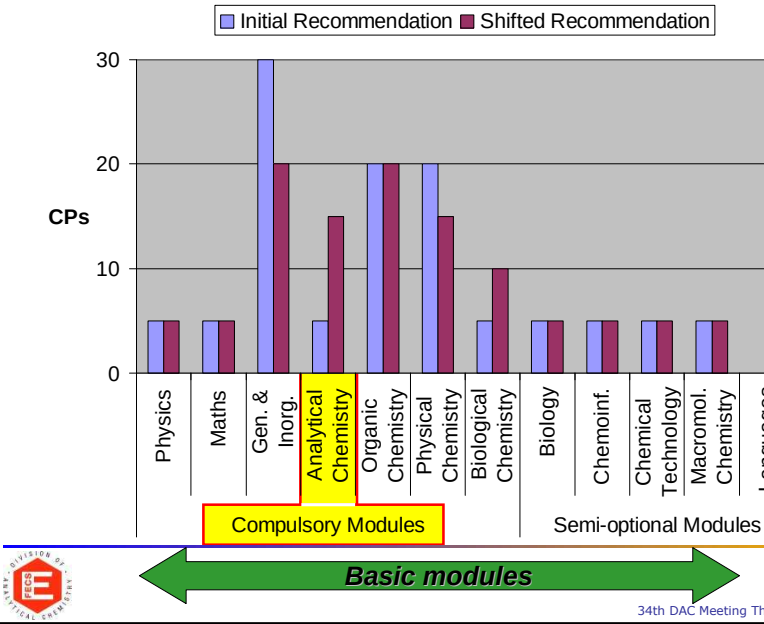


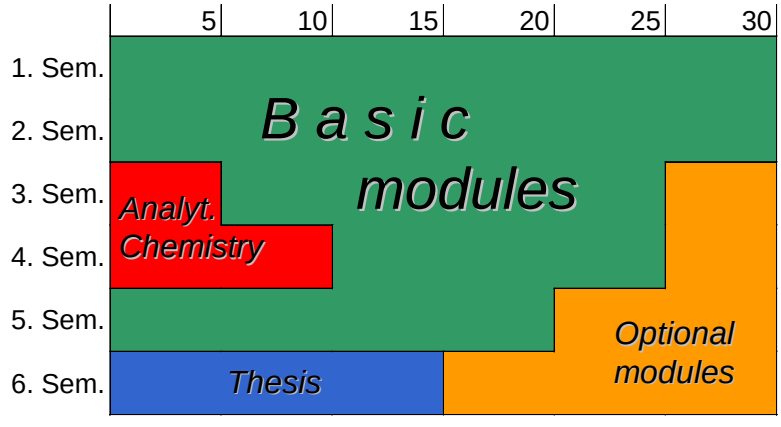
Flexibility of ECTN Eurobachelor

Module	Basic CP	Optional CP	Specializ. CP	Elective CP
Gen./Inorg. Chem.	20	10	10	15
Org. Chem.	20	10	10	15
Phys. Chem.	15	10	10	15
Analyt. Chem.	15	10	10	15
Macromol. Chem.	5	10	10	15
Chem. Techn.	5	10	10	15
Theor. Chem.	5	10	10	15
Chemoinformat.	10	10	10	15
Biochem./Molbiol.	15	10	10	15
Physics	10			15
Mathematics	10			15
Cumulative	130	90	90	165

Volume B.Sc.: 180 CPs

Volume total: 475 CPs

Model for an Eurobachelor Syllabus



Credits / Hours – Basic Considerations

1. **Ratio for allocation of students´ workload (hours):**
   lectures / lab exercises = 1 : 2 hours
2. **„Workload“ factors W for students:**
   lecture / seminar / lab exercise = 3 : 2 : 1

   → **Ratio of hours and "Workload" factors result in a CP ratio between lectures / lab exercises = 3 : 2 CPs**

3. **Total workload for students per semester:**
   750 hours/semester, i.e. 25 hours per CP

   → **Workload and CP ratio result for a Chemistry module of 5 CP in the fololowing amount of *teaching* hours (#CP x 25h / W):**

   Lectures: 3 CPs ≙ 25 h
   Lab exercises: 2 CPs ≙ 50 h

Credits / Hours – Analytical Chemistry

Module	Basic CP	Optional CP	Specializ. CP	Elective CP
Analyt. Chem.	15	10	10	15

Typ of modules	Number of modules	Lecture hours	Practical hours
Basic	**3**	**75**	**150**
Optional	**2**	**50**	**100**
Specialization	**2**	**50**	**100**
Elective	**3**	**75**	**150**

Aims of the Eurocurriculum II

- ***Flexibility*** as incentive for departments
- Retain the achieved ***educational standards***
- Deal with the ***Bologna process*** / Eurobachelor put into practice
- Model for effective ***teaching network*** and intensive team work

Contributions by
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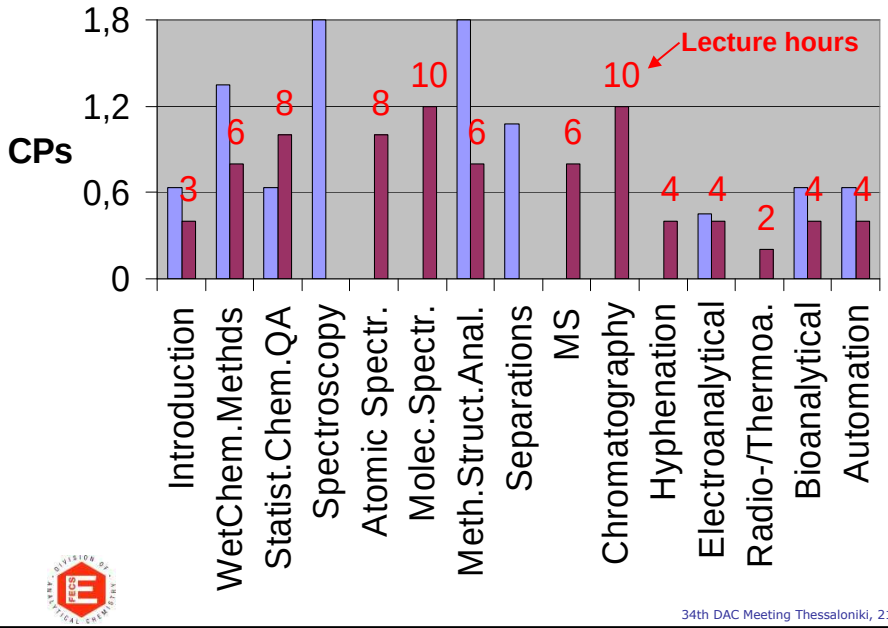
Kellner Book / Eurocurriculum II

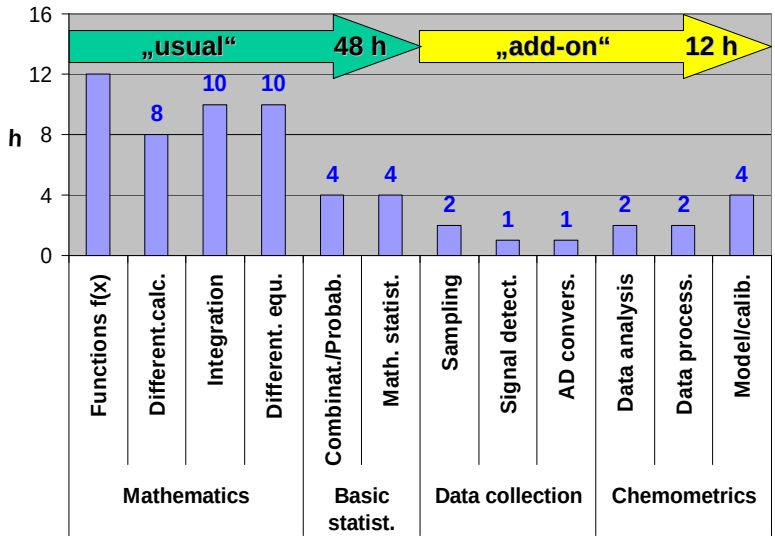


Mathematics

Module	Basic	Optional	Specializ.	Elective
	CP	CP	CP	CP
Mathematics	10			15

1. „Workload“ factors:
   lecture / seminar / lab exercises = 3 : 2: 1
2. Proposed workload in Mathematics:
   lecture / seminar = 6 : 1 hours (→ 2 : 0.5 CPs)
3. Total workload during semester:
   50 hours per week, i.e. 25 h per CP
4. From #1 through #3 for basic modules Mathematics:
   lecture: 8 CPs or 4 h/week / seminars: 2 CPs or 2 h/week

Mathematics: 8 CPs Lecture



(add 2 CPs for Seminar/Problems