



# Course Specifications (CS) preparation

### University Development Deanship

Note:

- **Red** and **Black** color are used to explain the preparation of CS
- Green color is used to present CS submitted by General Biology Program.





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- Individual course specifications should be prepared for each course in a program, and kept on file with the program specification.
- The purpose is to make clear the details of planning for the course as part of the package of arrangements to achieve the intended learning outcomes of the program as a whole.
- Course specifications should include the knowledge and skills to be developed in keeping with the National Qualifications Framework and the overall learning outcomes of the program, the strategies for teaching and assessment in sufficient detail to guide individual instructors, as well as the learning resources, facilities requirements and any other special needs.
- Course specifications should be prepared for both core and elective courses.

Reference: Page 39, Saudi handbook 2, July 2011

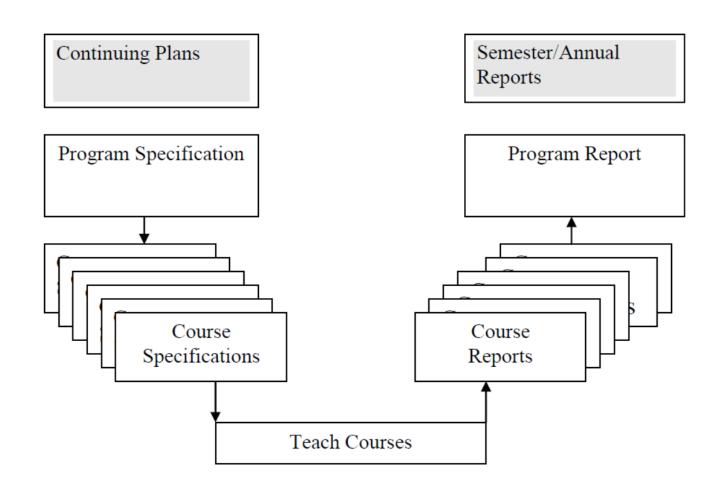




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Planning and review sequence







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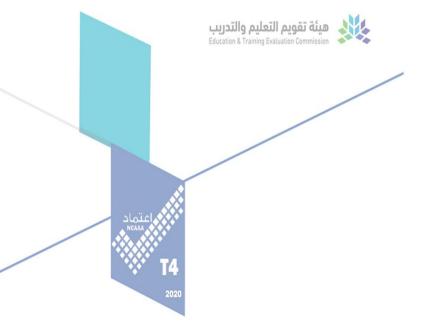






#### **Cover Page of the Course Specifications template**

Course Title:	Macromolecules Refer Study Plan		
Course Code:2045202-3 Refer Study Plan			
Program:	Bachelor of General Biology (20105) Refer Student Transcript		
Department:	Department of Chemistry Department of		
College:	College of Science College of		
Institution:	Taif University In CR should be same		



**Course Specifications** 









#### **A. Course Identification**



1.	Credit hours: 3 or 3 (2 Theory, 1 Lab/Tutorial )					
2.	2. Course type					
a.	University College Department  Others					
b.	Required 🖌 Elective					
3.	Level/year at which this course is offered: 5 <sup>th</sup> Level/3 <sup>rd</sup> Year					
4.	Pre-requisites for this course (if any): Advanced Polymer Chemistry (2045102-2)					
5.	5. Co-requisites for this course (if any): None					

Refer Program Specification, Section-C. Curriculum/2. Program Study Plan





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## A. Course Identification6. Mode of Instruction (<u>mark all that apply</u>)

#### 6. Mode of Instruction (mark all that apply)

No	Mode of Instruction	<b>Contact Hours</b>	Percentage
1	Traditional classroom		
2	Blended		
3	E-learning		
4	Distance learning		
5	Other		

a. Traditional classroom	✓ What percentage?	90%
b. Blended (traditional and online)	What percentage?	
c. e-learning	✓ What percentage?	10%
d. Correspondence	What percentage?	
f. Other	What percentage?	



**Old CS** 





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#### 6. Mode of Instruction (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	45 or 42	100% or 93.33%
2	Blended	-	
3	E-learning	3	or 6.67%
4	Correspondence	-	
5	Other	-	



#### 7. Actual Learning Hours (based on academic semester)

No	Activity	Learning Hours			
Contac	Contact Hours				
1	Lecture	45			
2	Laboratory/Studio	-			
3	Tutorial	-			
4	Others (specify)	-			
	Total	45			
Other	Other Learning Hours*				
1	Study	30			
2	Assignments	15			
3	Library	15			
4	Projects/Research Essays/Theses	-			
5	Others (specify)	-			
	Total	60			





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#### 7. Contact Hours (based on academic semester)

No	Activity	<b>Contact Hours</b>
1	Lecture	45
2	Laboratory/Studio	-
3	Tutorial	-
4	Others (specify)	-
	Total	45











#### **B.** Course Objectives and Learning Outcomes



1. Course Description The course introduces/ emphasis on.....

(Copy from Student handbook, The main keywords of the subject/chapters/Units, (3-6 Lines))

**Example:** The course introduces students to the basics of macromolecules by providing an introduction to: the types of macromolecules; the biophysical and biochemical properties of macromolecules. In addition, a brief.....

#### 2. Course Main Objective

Learning objectives are statements of what the <u>teacher intends</u> for the students to learn and are generally part of a teacher-centered approach, for example, may outline the material <u>the INSTRUCTOR intends</u> to cover in the course or the disciplinary questions the class will address. Known as IN-PUTS. Example of a Learning Objective: Students will be taught the basic principles of database searching. [teacher

will teach basic principles ... ]



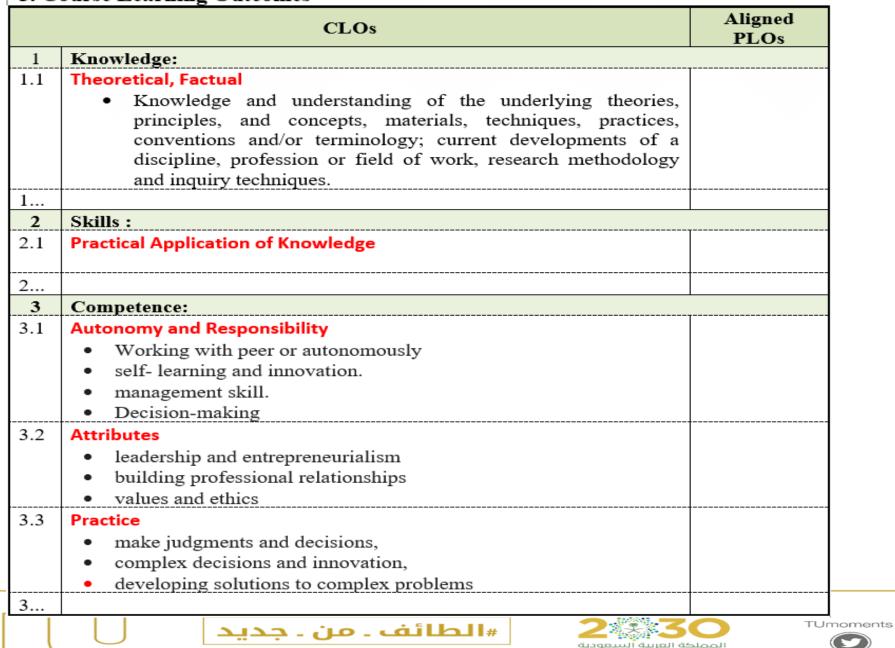


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#### 3. Course Learning Outcomes

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#### **3. Course Learning Outcomes**

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<u> </u>	5. Course Learning Outcomes				
	CLOs		Aligned PLOs		
	1	Knowledge and Understanding			
	1.1	<ul> <li>Knowledge and understanding of the underlying theories, principles, and concepts, materials, techniques, practices, conventions and/or terminology; current developments of a discipline, profession or field of work, research methodology and inquiry techniques.</li> </ul>			
	1.2				
	1.3				
	1				
	2	Skills :			
1	2.1	Cognitive Skills			
		Practical and Physical Skills			
		Communication and ICT Skills			
1	2.2				
	2.3				
ź	2				
	3	Values:			
1	3.1	Values and ethics			
		Autonomy and Responsibility			
	3.2				
	3.3				
-	3				

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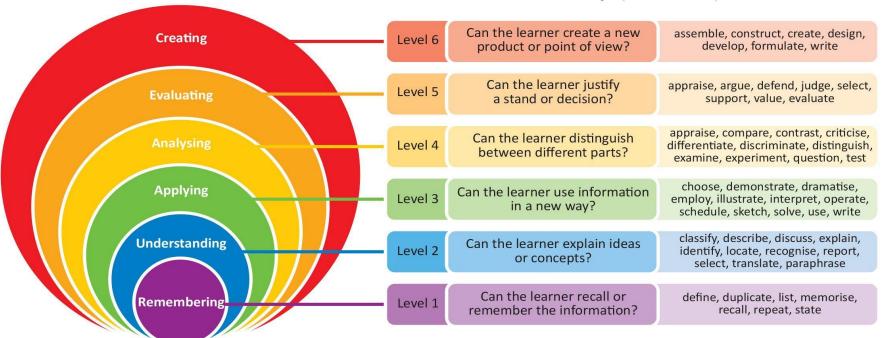
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#### **3.** Course Learning Outcomes

 Learning outcomes are statements of what the <u>student will KNOW and be able to DO or</u> <u>demonstrate</u> as a result of their learning and are part of a student-centered approach By contrast, focus on what <u>the STUDENTS know, comprehend</u> and realistically are able to do... [skill performance] by the end of course [achievement]. Known as OUT-PUTS.





#### Bloom's taxonomy (revised)

Avoid non measurable words (feel, enjoy, realize, see, listen, experience, etc. )





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#### 1. Minimum-2 and Maximum-8 CLOs.

2. Minimum two domains should be covered.

	CLOs	Aligned PLOs	
1	Knowledge:		1
1.1	Recognize structural mechanisms of how important biological processes take place and are controlled	K1	
1.2			Should be con
1			Section 4. Pro
2	2 Skills:		Outcomes Ma
2.1	Use databases with information of structure and function of macromolecules.	S1	
2.2	Analyze structural mechanisms of how important biological processes take place and are controlled	S2	
2			
3	Competence:		1
3.2	Present scientific literature in the area of the course.	C2	
3.3	Demonstrate act responsibly and ethically in conducting their work	C3	]

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Should be consistent with PS, Section 4. Program learning Outcomes Mapping Matrix

#### Values (Competency)

There is a lot of overlap between the two; the difference can sometimes seem to be just a matter of semantics. But in general the values can be seen as 'what' is important and the competencies cover 'how' it is demonstrated. So in reality, both are equally important because either one without the other provides an incomplete picture.





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#### **C.** Course Content

No	List of Topics ( <i>Lecture Plan</i> )	Contact Hours
1	Basic structural biology and Bioinformatics: Basic macromolecular structure, classification of Bioinformatics, proteins, DNA, and RNA. Page 100-120 (Textbook-1)	2
2	Binding specificity, catalysis, Page 50-60 (Textbook-2)	1
3		4
4		
5		
	Total	45

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'Total' should be consistent with Section A.6,7













#### **D.** Teaching and Assessment

**1.** Alignment of Course Learning Outcomes with Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods	
1.0	Knowledge and Understanding			
1.1	List all CLOs same as in the previous section			
1.2				
2.0	Skills			
2.1				
2.2				
3.0	Values			
3.1				
3.2				
•••				





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**Teaching methods (NCAAA):** lecture, debate, small group work, whole group and small group discussion, research activities, lab demonstrations, projects, debates, role playing, case studies, guest speakers, memorization, humor, individual presentation, brainstorming, and a wide variety of hands-on student learning activities.

- \*TU Teaching and Learning Strategies
- S1. Brain Storming
- S2. Group Work "Collaborative Learning"
- S3. Discussion
- S4. Reciprocal Teaching
- S5. Projects
- S6. Problem-Solving
- S7. Discovery Learning
- S8. Concept Maps
- S9. E-Learning
- S10. Peer Evaluation
- S11. Lectures
- S12. Flipped Classroom
- S13. Self-learning













#### When assessing student learning,

<u>**Direct methods**</u> focus on looking at actual samples of student work produced in our programs.

This can be done through Course Work, Projects, Class discussion, Presentation, activity logs; any behavior that directly observes or measures student performance

<u>Indirect methods</u> focus on the perception of student competence other than looking at actual samples of student work.

This can be done through surveys, interviews, reports on retention, graduation, and placement.

Assessment methods (NCAAA): exams, portfolios, long and short essays, log books, analytical reports, individual and group presentations, posters, journals, case studies, lab manuals, video analysis, group reports, lab reports, debates, speeches, learning logs, peer evaluations, self-evaluations, videos, graphs, dramatic performances, tables, demonstrations, graphic organizers, discussion forums, interviews, learning contracts, antidotal notes, artwork, KWL charts, and concept mapping.









#### **D.** Teaching and Assessment

#### **1.** Alignment of Course Learning Outcomes with Teaching Strategies and Assessment Methods



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Code **Teaching Strategies Assessment Methods Course Learning Outcomes** 1.0 Knowledge Recognize structural mechanisms of how important Lecture 1.1 Exams, Assignment biological processes take place and are controlled 1.2 Skills 2.0 Use databases with information of structure and Lecture. 2.1 Exam, Group reports function of macromolecules. Group discussion 2.2 . . . 3.0 Competence Research activities. 3.1 Present scientific literature in the area of the course. Individual presentation Case studies Demonstrate act responsibly and ethically in evaluations. Peer Class 3.2 Small group work conducting their work observation. . . .





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#### **2.** Assessment Tasks for Students

#	Assessment task*	Week Due	Percentage of Total Assessment Score
List all direct assessment method included in previous table			
1	Assignment, Group reports	Continuous, or Throughout the semester	10%
2	Quiz (Best two out of three)	End of Unit	5%
3	Presentations	13	5%
4	Midterm exam-1	7	15%
5	Midterm exam-2	12	15%
6	Final exam	16	50%

\*Assessment task (i.e., written test, oral test, oral presentation, group project, essay, etc.)





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#### Refer PS Section D. Student Admission and Support:

#### **E. Student Academic Counseling and Support**

Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice :

Faculty members dedicate 10 hours every week for office hours, during which students are encouraged to visit their instructor for help, conversation practice and clarifying difficult concepts. The Academic Guidance Unit of the program offers personal, academic, psychological and professional counseling, as well as group counseling to support the academic, behavioral, emotional, psychological and social growth of students.







#### **1.Learning Resources**

	Approved Textbook.	
Required Textbooks	Example: An Introduction to Polymer Science Editors/Authors: F Bovey 1st Edition Imprint/ Publisher: Academic Press Published Date: 28th October 1979 eBook ISBN: 978-0323145794	
Essential References Materials	Reference book, manuals, handbooks Example: Human Biological Aging: From Macromolecules to Organ Systems Editors/Authors: Glenda E. Bilder 1st Edition Imprint/ Publisher: Wiley-Blackwell Published Date: January 29, 2016 eBook ISBN: 978-1118967027	
Electronic Materials	Materials CD, Electronic course books, SDL, Journals	
Other Learning Materials	Link, Website	







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#### 2. Facilities Required

Item	Resources
Accommodation	
(Classrooms, laboratories,	Lecture room with 30 seats.
demonstration rooms/labs, etc.)	
Technology Resources	
(AV, data show, Smart Board,	Projector, Smart Board, MATLAB
software, etc.)	
Other Resources	
(Specify, e.g. if specific laboratory	
equipment is required, list	
requirements or attach a list)	







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#### **G.** Course Quality Evaluation

Evaluation Areas/Issues	Evaluators	<b>Evaluation Methods</b>
Effectiveness of teaching	Program Leaders	Direct
Extent of achievement of course learning outcomes	Faculty	Direct
Quality of learning resources	Student, Faculty	Indirect
Course management and planning	Students	Indirect
Teaching and interaction with students	Students	Indirect
Effectiveness of Evaluation and exams	Students, Peer Reviewer	Indirect, Direct

**Evaluation areas** (e.g., Effectiveness of teaching and assessment, Extent of achievement of course learning outcomes, Quality of learning resources, etc.) **Evaluators** (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify) **Assessment Methods** (Direct, Indirect)





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#### **H. Specification Approval Data**

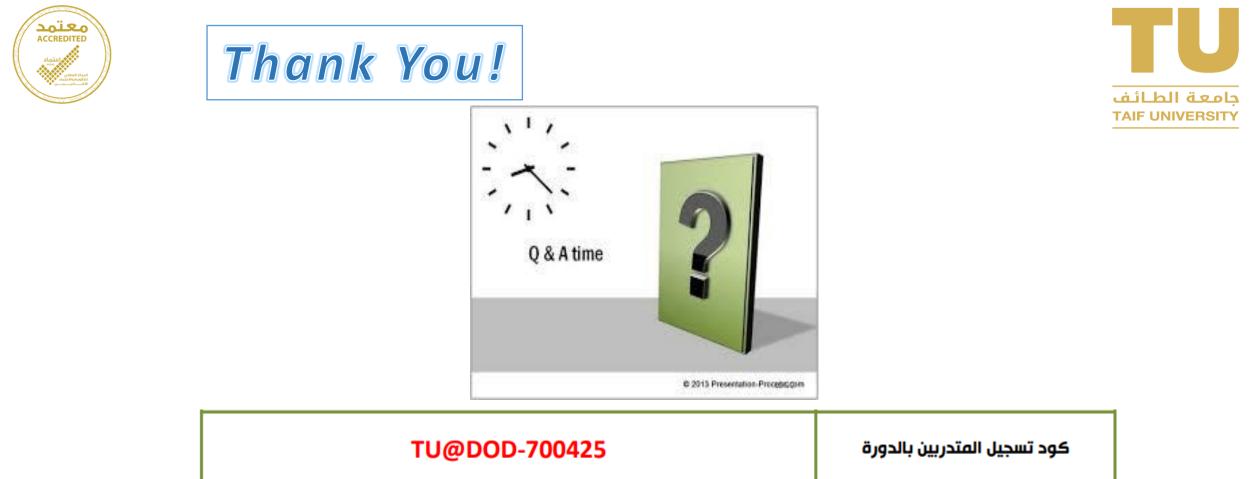
Council / Department Council	
Committee	
Reference No.	41 / 40 – 9
Date	9/01/2020 Date should be after PS approval date











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