Calculation of Contact Hours and Credit Hours

Premises:

- 1. Activities equivalent to classroom instruction have some direct oversight or supervision of the course instructor. This is also referred to as "instructor contact time" ¹
 - a. These activities may occur in either a traditional classroom or an online/virtual learning environment.
 - b. These activities are directly related to the objectives of the course/program.
 - c. Course grading measures accomplishment of the learning.
 - d. If online/virtual, the activity is equivalent to what is conducted in the traditional classroom.
- 2. For each 1 hour of "instructor contact time," the learner spends at least 2 hours of "outside class time." Outside class time allows for review and reinforcement of content that is learned via instructor contact time.

Activity	Criteria for	Comments
Activity	Determining	Comments
	Contact Hours	
Individual/Self-Study	Contact Hours	
	Use actual length of	Additional time spent in requesting the videos or
Lectures (video-	Use actual length of	Additional time spent in re-watching the videos or
recorded lectures or	the lecture video.	stopping and re-starting the videos is considered
attendance at live	V n a v vla de a	"outside study time." (See below)
lectures)	Knowledge	
	attainment is	
	documented via a	
	quiz, exam or other	
	graded evaluation	
	method.	
College-level textbook	Average reading	Klatt et al (2011) cites 1992 study by Carver:
reading	rate to memorize	Reading to memorize for recall and recitation is at
	for recall and	an average rate of 150 Words Per Minute. The
(These are	recitation = 12	average college-level textbook has 500 words per
Readings/resources that	pages per hour	page. This equates to 12 pages per hour.
present new content not		
learned via a lecture or		
in the classroom.)		
Book reading (books	Average reading	Klatt et al (2011)) cites 1992 study by Carver:
other than textbooks)	rate for	Reading for comprehension of whole sentences is
for comprehension of	comprehension of	at an average rate of 300 Words Per Minute.
whole sentences in	whole sentences	
context.	300 words per	Amazon stats report the average book has 64,000
	minute.	words. This equates to 3.5 hours to read a typical
(These are		book. (Reference:
Readings/resources that		

present new content not learned via a lecture or in the classroom.)	Calculate contact hours based on number of words in the book. Alternatively, the typical book requires 3.5 hours to read. Book serves as the focus for graded	http://www.huffingtonpost.com/2012/03/09/book-length_n_1334636.html)
	assignments and discussions with the instructor.	
Journal Article The article presents new content not learned via a lecture or in the classroom	Calculate contact hours based on number of words and at an average rate of 150 words per minute.	Example: Pharmacotherapy Journal Original Research Articles = Text is 3500 words and abstract is 500 words (4000 total) [26.6 minutes for a practitioner; 1 hr for a student] Review article = Test is 6000 words and abstract is 300 words (6300 total) [42 minutes for a practitioner; 1.5 hr for a student]
Web-based materials (eg, web-pages) that are not document-based.	Total minutes = number of screens X 4	ABHES Guidelines indicated the average time on a screen is generally calculated as 3-5 minutes/screen.
Readings/resources that present new content not learned via a lecture or in the classroom		
Simulations or instructional game	Contact time is determined based on experience in using the simulation/game with learners and/or the instructional design.	
	There is an embedded assessment or other grading method that documents the activity was completed.	

Interactive tutorials;	Same as above	
self-playing videos or	Sume as above	
animation		
Audio podcasts	Use actual length of the audio. Knowledge attainment is documented via a quiz, exam or other graded evaluation	Additional time spent in listening to the audio multiple times or stopping and re-starting the audio is considered "outside study time." (See below)
	method.	
Quiz (online but not	Amount of time the	Definition:
proctored)	quiz is scheduled for.	A quiz is an assessment that is short in during (eg, 5 minutes to 30 minutes). These typically consist of multiple choice questions or short-answer questions.
Class-Based Learning		
Face-to-face class	Use actual length of	
sessions that includes	the scheduled class	
any form of student:instructor	session.	
interaction.		
1. Collaborative		
learning session:		
Large group or		
small group		
2. Team-based		
learning		
3. Problem-based		
learning		
Virtual classroom	Use actual length of	
sessions (Big Blue	the scheduled class	
Button, Adobe Connect	session.	
etc) that includes		
student:instructor		
interaction.		

Quiz (completed in a	Amount of time	Definition:
face-to-face or proctored online setting)	scheduled for the quiz.	A quiz is an assessment that is short in during (eg, 5 minutes to 30 minutes). These typically consist of multiple choice questions or short-answer questions.
		In Team-Based Learning, these are called individual readiness tests (iRATs) and team readiness tests (tRATs)
Exam	Amount of time scheduled for the exam.	Definition: An exam is an assessment that is long in duration (more than 30 minutes)
		Exams may occur in the classroom setting or in a proctored online environment.
Assignments	Amount of time that is projected for a student to complete the assignment. (This should be confirmed in future semesters through	Definition: Assignments are learning activities that are graded by the instructor and require the student to construct "new knowledge" that was not covered in lectures or assigned readings. Assignments include projects, postings to group discussion sites, class social media contributions or
	student feedback about time required.)	other similar participation. These activities include student:instructor interaction.
		Assignments may be individual or involve group/team work.
Graded Discussion board posts (a form of an assignment)		Definition: A graded discussion board post is an assignment/learning activity that requires the student to construct a response to a discussion board topic. The faculty member evaluates the student's discussion board activities using a rubric or other organized approach.
Laboratory-based learning: Student attends a laboratory session or a very brief practical experience that is supervised by an instructor	2-3 hours of laboratory activity = 1 traditional classroom learning hour.	
Experiential Learning activities (practice-related activities that occur in the community/practice and	40 hours of experiential learning = 15 contact hours or 1 credit hour.	

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are supervised by an		
instructor)		
Email Communications		
with a faculty member		
(asking questions)	A	Definition
Self-directed learning activities	Amount of time the instructor	Definition:
activities	determines is likely	Self-directed learning activities are planned in collaboration with the instructor and approved by
	needed to complete	the instructor. Instructor also monitors and
	the learning	evaluates the student's completion of the planned
	activities.	learning activities.
	activities.	learning activities.
Outside		
Learning/Preparation		
(2 hrs for each 1 hr		
spent in instructor-		
directed activities)		
Self-assessments	Amount of time the	Definition:
developed by the	self-assessment is	A self-assessment is an assessment strategy that is
instructor (quizzes with	projected to take	available to learners and intended to help them
immediate feedback)	for the typical	determine their understanding of coursework. The
	student. (eg, 10	instructor does not monitor whether the student
	multiple choice	completes the assessment and therefore, it is not a
	questions requires	graded activity.
D .: D .!!	20-30 minutes)	D (:
Practice Problems	Amount of time the	Definition:
	self-assessment is	Practice problems are a form of self-assessment if
	projected to take	the instructor provides the answers and the student
	for the typical student.	uses the problems/answers to self-assess their
	Student.	understanding of concepts. The instructor does not monitor whether the student completes the
		assessment and therefore, it is not a graded
		activity.
Discussion board	Amount of time the	Definition:
review/reading:	instructor	The student is not required to make a post. There
Teview/Tedallis.	determines is likely	is no assessment as to whether students read the
	needed to read the	discussion board or make posts.
	discussion board	a.co.socon sound of friding postor
	posts	
Homework	Amount of time the	Definition:
	instructor	Homework involves learning activities that provides
	determines is likely	students with reinforcement of concepts/principles
	needed to complete	learned via "direct instructor contact time"
	the activity.	activities. Homework does not require the student
		to construct new knowledge using new learning

		resources. Homework is graded by the instructor but it involves minimal feedback.
Individual study to prepare for quizzes/exams.	Amount of time the instructor determines is likely needed to complete the activity.	
Individual study to review notes and materials following a class session.	Amount of time the instructor determines is likely needed to complete the activity.	

References:

1. Cedar Crest College

http://www.cedarcrest.edu/ca/pdf/Online and Hybrid Course Development Guidelines 2-10-11.pdf