

CRx Pacing Guide

Currently, our progress percentage is the percent of the lessons present in the course. So, assuming our course is divided as shown in the image below, the total score percent is completed / available which in this case equals 2 out of 6 or 33%.

Course Name		Enrollment Status	Start	End	Progress	Score	
Mathematics CC1 (2012)		Active	11/2/2012	10/24/2013	<div style="width: 33%;"></div> 33%	8	
#	Unit Title	Skipped	Start	Complete	Progress	Score	
1	Unit 1	<input type="checkbox"/>		11/2/2012	<div style="width: 100%;"></div> 100%		
Type	Title	Status	Blocked	Due	Started	Complete	Attempts
LESSON	1. Properties of Sets	Graded	<input type="checkbox"/>	11/2/2012		11/2/2012	0
LESSON	2. Operations of Sets	Graded	<input type="checkbox"/>	1/1/2013		11/2/2012	0
TEST	3. Alternate Test	Skipped	<input type="checkbox"/>				0
2	Unit 2	<input type="checkbox"/>			<div style="width: 0%;"></div> 0%		
Type	Title	Status	Blocked	Due	Started	Complete	Attempts
LESSON	1. Structure: Axioms	Assigned	<input type="checkbox"/>	2/28/2013			0
LESSON	2. Structure: Applications	Not Started	<input type="checkbox"/>	4/29/2013			0
LESSON	3. Relations and Functions: Definitions	Not Started	<input type="checkbox"/>	6/27/2013			0
LESSON	4. Relations and Functions: Graphs	Not Started	<input type="checkbox"/>	8/26/2013			0
TEST	5. Alternate Test	Skipped	<input type="checkbox"/>				0

In a regular course this works, given our definition of progress is in terms of available assignments. The issue arises with Credit Recovery (CRx) courses. Let's assume that the course is in CRx mode. Before the student takes the pre-test (Alt Test) of the course, it looks like this:

Course Name		Enrollment Status	Start	End	Progress	Score	
Mathematics CC1 (2012)		Active	11/2/2012	10/24/2013	<div style="width: 50%;"></div> 50%	8	
#	Unit Title	Skipped	Start	Complete	Progress	Score	
1	Unit 1	<input type="checkbox"/>		11/2/2012	<div style="width: 100%;"></div> 100%		
Type	Title	Status	Blocked	Due	Started	Complete	Attempts
LESSON	1. Properties of Sets	Skipped	<input type="checkbox"/>			11/2/2012	0
LESSON	2. Operations of Sets	Skipped	<input type="checkbox"/>			11/2/2012	0
TEST	3. Alternate Test	Graded	<input type="checkbox"/>			11/2/2012	0
2	Unit 2	<input type="checkbox"/>			<div style="width: 0%;"></div> 0%		
Type	Title	Status	Blocked	Due	Started	Complete	Attempts
LESSON	1. Structure: Axioms	Skipped	<input type="checkbox"/>				0
LESSON	2. Structure: Applications	Skipped	<input type="checkbox"/>				0
LESSON	3. Relations and Functions: Definitions	Skipped	<input type="checkbox"/>				0
LESSON	4. Relations and Functions: Graphs	Skipped	<input type="checkbox"/>				0
TEST	5. Alternate Test	Assigned	<input type="checkbox"/>	11/2/2012			0

As we can see in the image on the previous page, the lesson completion percent is 50% since one of the tests is graded, and the other is assigned. The rest of the assignments are skipped, so they are not considered to be part of the equation. The student is therefore half way thru the course at this point.

Now, if the student fails the unit 2 pre-test (Alt Test) and now has 4 assignments in this unit to complete; the total course progress falls from 1 of 2 (50%) to 1 of 5 (20%) as shown below.

Course Name		Enrollment Status	Start	End	Progress	Score	
-	Mathematics CC1 (2012)	Active	11/2/2012	10/24/2013	 20%	8	
L							
#	Unit Title	Skipped	Start	Complete	Progress	Score	
+ 1	Unit 1	<input type="checkbox"/>		11/2/2012	 100%		
- 2	Unit 2	<input type="checkbox"/>			 0%		
L							
Type	Title	Status	Blocked	Due	Started	Complete	Attempts
LESSON	1. Structure: Axioms	Assigned ▾	<input type="checkbox"/>	11/2/2012			0
LESSON	2. Structure: Applications	Not Started ▾	<input type="checkbox"/>	1/30/2013			0
LESSON	3. Relations and Functions: Definitions	Not Started ▾	<input type="checkbox"/>	4/30/2013			0
LESSON	4. Relations and Functions: Graphs	Not Started ▾	<input type="checkbox"/>	7/26/2013			0
TEST	5. Alternate Test	Skipped ▾	<input type="checkbox"/>				0

This leads to confusion amongst parents and teachers as the student should always be making forward progress. And for all intents and purposes, the student has progressed as he has completed one of the units. Therefore, we have changed the rules we use to calculate student progress in courses in Credit Recovery (CRx) mode.

CRx Pacing Guide

The new pacing rules for courses in CRx mode are as below.

1. We consider units as blocks of work. Completing a unit causes student progress to increase N% points. Regardless of the number of lessons present (skipped and unskipped), the total movement and unit completion provided is always $1/(\text{Total No of Units})$.

Course Name		Enrollment Status	Start	End	Progress	Score	
Mathematics CC1 (2012)		Active	11/2/2012	10/24/2013	<div style="width: 50%;"></div> 50%	8	
#	Unit Title	Skipped	Start	Complete	Progress	Score	
1	Unit 1	<input type="checkbox"/>		11/2/2012	<div style="width: 100%;"></div> 100%		
Type	Title	Status	Blocked	Due	Started	Complete	Attempts
LESSON	1. Properties of Sets	Graded	<input type="checkbox"/>	11/2/2012		11/2/2012	0
LESSON	2. Operations of Sets	Graded	<input type="checkbox"/>			11/2/2012	0
TEST	3. Alternate Test	Skipped	<input type="checkbox"/>			11/2/2012	0
2	Unit 2	<input type="checkbox"/>			<div style="width: 0%;"></div> 0%		
Type	Title	Status	Blocked	Due	Started	Complete	Attempts
LESSON	1. Structure: Axioms	Assigned	<input type="checkbox"/>	1/11/2013			0
LESSON	2. Structure: Applications	Not Started	<input type="checkbox"/>	3/25/2013			0
LESSON	3. Relations and Functions: Definitions	Not Started	<input type="checkbox"/>	6/4/2013			0
LESSON	4. Relations and Functions: Graphs	Not Started	<input type="checkbox"/>	8/14/2013			0
TEST	5. Alternate Test	Skipped	<input type="checkbox"/>				0

2. We show granularity at a unit level, so when the student completes 1 out of 4 assignments in an unit and the total weight of the unit is 50%, the course progress would be $50 \times 1/4 = 12.5\%$. So progress would be incremented 50%.

Course Name	Enrollment Status	Start	End	Progress	Score		
Mathematics CC1 (2012)	Active	11/2/2012	10/24/2013	<div style="width: 62.5%;"></div> 62.5%	8		
#	Unit Title	Skipped	Start	Complete	Progress	Score	
1	Unit 1	<input type="checkbox"/>		11/2/2012	<div style="width: 100%;"></div> 100%		
Type	Title	Status	Blocked	Due	Started	Complete	Attempts
LESSON	1. Properties of Sets	Graded	<input type="checkbox"/>	11/2/2012		11/2/2012	0
LESSON	2. Operations of Sets	Graded	<input type="checkbox"/>			11/2/2012	0
TEST	3. Alternate Test	Skipped	<input type="checkbox"/>			11/2/2012	0
2	Unit 2	<input type="checkbox"/>			<div style="width: 25%;"></div> 25%		
Type	Title	Status	Blocked	Due	Started	Complete	Attempts
LESSON	1. Structure: Axioms	Graded	<input type="checkbox"/>	1/11/2013		11/2/2012	0
LESSON	2. Structure: Applications	Assigned	<input type="checkbox"/>	3/25/2013			0
LESSON	3. Relations and Functions: Definitions	Not Started	<input type="checkbox"/>	6/4/2013			0
LESSON	4. Relations and Functions: Graphs	Not Started	<input type="checkbox"/>	8/14/2013			0
TEST	5. Alternate Test	Skipped	<input type="checkbox"/>				0

3. For CRx courses, before the pre-test (Alt Test) is taken the progress of the course would be the summation of the previous units and 0% for this unit.
- a. If the student passes the unit, he or she gets the full unit credit for this. So its 50% for the unit below.

Course Name	Enrollment Status	Start	End	Progress	Score		
Mathematics CC1 (2012)	Active	11/2/2012	10/24/2013	<div style="width: 50%;"></div> 50%	9		
#	Unit Title	Skipped	Start	Complete	Progress	Score	
1	Unit 1	<input type="checkbox"/>		11/2/2012	<div style="width: 100%;"></div> 100%		
2	Unit 2	<input type="checkbox"/>			<div style="width: 0%;"></div> 0%		
Type	Title	Status	Blocked	Due	Started	Complete	Attempts
LESSON	1. Structure: Axioms	Skipped	<input type="checkbox"/>			11/2/2012	0
LESSON	2. Structure: Applications	Skipped	<input type="checkbox"/>				0
LESSON	3. Relations and Functions: Definitions	Skipped	<input type="checkbox"/>				0
LESSON	4. Relations and Functions: Graphs	Skipped	<input type="checkbox"/>				0
TEST	5. Alternate Test	Assigned	<input type="checkbox"/>	7/9/2013			0

- b. If the student fails the unit, he gets zero, but the credit for the previous unit remains what it was and the student is assigned the appropriate lessons in the unit.

Course Name		Enrollment Status	Start	End	Progress	Score	
Mathematics CC1 (2012)		Active	11/2/2012	10/24/2013	<div style="width: 50%;"></div> 50%	9	
#	Unit Title	Skipped	Start	Complete	Progress	Score	
+ 1	Unit 1	<input type="checkbox"/>		11/2/2012	<div style="width: 100%;"></div> 100%		
- 2	Unit 2	<input type="checkbox"/>			<div style="width: 0%;"></div> 0%		
Type	Title	Status	Blocked	Due	Started	Complete	Attempts
LESSON	1. Structure: Axioms	Assigned ▾	<input type="checkbox"/>	11/2/2012			0
LESSON	2. Structure: Applications	Not Started ▾	<input type="checkbox"/>	1/30/2013			0
LESSON	3. Relations and Functions: Definitions	Not Started ▾	<input type="checkbox"/>	4/30/2013			0
LESSON	4. Relations and Functions: Graphs	Not Started ▾	<input type="checkbox"/>	7/28/2013			0
TEST	5. Alternate Test	Skipped ▾	<input type="checkbox"/>				0

4. Units with all assignments (Lesson / Quiz / Test / Project / Review) skipped, are considered as skipped so are not included in the calculation. If the teacher decides to assign any assignments within the unit, the unit would then be included in the course, even if there is just one assignment in the unit.

Course Name		Enrollment Status	Start	End	Progress	Score	
Mathematics CC1 (2012)		Active	11/2/2012	10/24/2013	<div style="width: 100%;"></div> 100%	9	
#	Unit Title	Skipped	Start	Complete	Progress	Score	
+ 1	Unit 1	<input type="checkbox"/>		11/2/2012	<div style="width: 100%;"></div> 100%		
- 2	Unit 2	<input checked="" type="checkbox"/>			<div style="width: 0%;"></div> 0%		
Type	Title	Status	Blocked	Due	Started	Complete	Attempts
LESSON	1. Structure: Axioms	Skipped ▾	<input type="checkbox"/>				0
LESSON	2. Structure: Applications	Skipped ▾	<input type="checkbox"/>				0
LESSON	3. Relations and Functions: Definitions	Skipped ▾	<input type="checkbox"/>				0
LESSON	4. Relations and Functions: Graphs	Skipped ▾	<input type="checkbox"/>				0
TEST	5. Alternate Test	Skipped ▾	<input type="checkbox"/>				0