

**Ben's Academic Performance**

Semester 3.2 - October 2022							
Subject	Catalog Nbr	Module	Credit Unit	Grade	Grade Point	Credit Unit x Grade Point	Cumulative GPA
FI	INT	INTERNSHIP	16	A	4	64	3.8045
<b>total</b>			16			64	

Semester 3.1 - April 2022							
Subject	Catalog Nbr	Module	Credit Unit	Grade	Grade Point	Credit Unit x Grade Point	Cumulative GPA
FI		FINANCIAL PLANNING	4	A	4	16	3.96
FI	3011_BI	BUSINESS INTELLIGENCE	5	A	4	20	3.7778
FI	3011_CRM	CUSTOMER RELATIONSHIP MANAGEMENT	5	A	4	20	
FI	3011_ITO	IT OUTSOURCING	5	AD	4	20	
IS ARTS	7FDCUL	FOOD AND CULTURE	2	B+	3.5	7	
IS PDA	7WISP	WORLD ISSUES: A SINGAPORE PERSPECTIVE	2	A	4	8	
<b>total</b>			23			91	

Semester 2.2 - October 2021							
Subject	Catalog Nbr	Module	Credit Unit	Grade	Grade Point	Credit Unit x Grade Point	Cumulative GPA
FI	1101_ECO	ECONOMICS	5	AD	4	20	3.91
FI	2201_EPM	ENTERPRISE PROJECT MANAGEMENT	5	A	4	20	3.734
FI	2201_ERP	ENTERPRISE RESOURCE PLANNING	5	AD	4	20	
FI	3011_BFA	BANKING & FINANCIAL APPLICATIONS	5	AD	4	20	
IS ARTS	7BCF	BASIC CONVERSATIONAL FRENCH	2	B	3	6	
IS IE	7IL	IDEA LAUNCHPAD	2	PM		0	
<b>total</b>			22			86	

Semester 2.1 - April 2021							
Subject	Catalog Nbr	Module	Credit Unit	Grade	Grade Point	Credit Unit x Grade Point	Cumulative GPA
FI	11FMGT	FINANCIAL MANAGEMENT	4	A	4	16	3.5
FI	2101_EBP	ENTERPRISE BUSINESS PROCESSES	5	A	4	20	3.6806
IS ARTS	7IMAGE	BUSINESS ETIQUETTE & IMAGE	2	C+	2.5	5	
IS IE	7IB	IDEA BLUEPRINT	2	PM		0	
IT	2105_DB	DATABASES	5	B	3	15	
IT	2201_DWA	DEVELOPING WEB APPLICATIONS	5	B+	3.5	17.5	
<b>total</b>			21			73.5	

Semester 1.2 October 2020							
Subject	Catalog Nbr	Module	Credit Unit	Grade	Grade Point	Credit Unit x Grade Point	Cumulative GPA
FI	11FMS	FINANCIAL MARKETS & SERVICES	4	B+	3.5	14	3.63
FI	1101_EIS	ENTERPRISE INFORMATION SYSTEMS	5	B+	3.5	17.5	3.7549
FI	1201_ESAD	ENTERPRISE SYSTEMS ANALYSIS & DESIGN	5	B+	3.5	17.5	
IS PDA	7COMISS	COMMUNICATION & CONTEMPORARY ISSUES	4	B+	3.5	14	
IT	1201_OOP	OBJECT-ORIENTED PROGRAMMING	6	A+	4	24	
<b>total</b>			24			87	

Semester 1.1 - April 2020							
Subject	Catalog Nbr	Module	Credit Unit	Grade	Grade Point	Credit Unit x Grade Point	Cumulative GPA
FI	1101_BS	BUSINESS STATISTICS	5	A+	4	20	3.87
FI	1101_DDNT	DIGITAL DEVICES & NETWORKING TECHNOLOGY	5	B+	3.5	17.5	3.8704
FI	1201_ACC	ACCOUNTING	5	A	4	20	
IS IE	7U	IDEA JUMPSTART	2	B+	3.5	7	
IS PDA	7SW	SPORTS & WELLNESS	2	PX		0	
IT	1101_FP	FUNDAMENTALS FOR IT PROFESSIONALS	5	AD	4	20	
IT	1101_FSP	FUNDAMENTALS OF PROGRAMMING	5	A	4	20	
<b>total</b>			27			104.5	

Semester	GPA	Cumulative GPA
Semester 1.1 - April 2020	3.87	3.8704
Semester 1.2 - October 2020	3.63	3.7549
Semester 2.1 - April 2021	3.5	3.6806
Semester 2.2 - October 2021	3.91	3.734
Semester 3.1 - April 2022	3.96	3.7778
Semester 3.2 - October 2022	4	3.8045

(a) Ben is interested to get a recap of some of his past results. Help him calculate his Year 1 (Semesters 1.1 and 1.2) cumulative GPA.

Ben's Year 1 cumulative GPA is 3.6132  
3.7549

(b) Ben is curious about his performance in the IS modules. He wanted to know if the IS modules increased or pulled down his cumulative GPA. Help Ben to calculate the cumulative GPA of all the IS modules that he had completed to date. Have his IS modules boosted, or pulled down his cumulative overall GPA?

cumulative GPA of IS modules:  
3.3571

As of Semester 3.1 - April 2022, Ben's GPA is 3.7549, which is higher than his cumulative GPA of IS modules by 0.3978. Hence, his IS modules pulled down his cumulative overall GPA.

(c) Using both formula and What-if Analysis tools - Goal Seek function, find out what is the minimum grade that Ben has to score for his internship (INT) in order to qualify for OCBC's talent grooming programme.

Using Goal Seek function, Ben would need to get a grade point of 3.963 and get a cumulative GPA of 3.8001, which is above the minimum GPA of 3.8. Hence, the minimum grade that Ben has to score for his internship in order to qualify for OCBC's talent grooming programme is A to get a GPA of 3.8045. If Ben scores a B+, he would get a GPA of 3.7444 and it would not qualify for OCBC's talent grooming programme.

Semester 3.2 - October 2022							
Subject	Catalog Nbr	Module	Credit Unit	Grade	Grade Point	Credit Unit x Grade Point	Cumulative GPA
FI	INT	INTERNSHIP	16	?	3.9632225	63.41155925	3.96
<b>total</b>			16			63.41155925	3.8001

Semester 3.1 - April 2022							
Subject	Catalog Nbr	Module	Credit Unit	Grade	Grade Point	Credit Unit x Grade Point	Cumulative GPA
FI	3011_BI	BUSINESS INTELLIGENCE	5	A	4	20	3.96
FI	3011_CRM	CUSTOMER RELATIONSHIP MANAGEMENT	5	A	4	20	3.7778
FI	3011_ITO	IT OUTSOURCING	5	AD	4	20	
IS ARTS	7FDCUL	FOOD AND CULTURE	2	B+	3.5	7	
IS PDA	7WISP	WORLD ISSUES: A SINGAPORE PERSPECTIVE	2	A	4	8	
<b>total</b>			23			91	

Goal Seek

Set cell: \$I\$5

To: value: 3.8

By changing cell: \$F\$5

OK Cancel

Goal Seek Status

Goal Seeking with Cell IS found a solution.

Target value: 3.8

Current value: 3.8001

OK Cancel

Documentation			
Cell Reference	Description	Formula	
<b>Semester 3.2 - October 2022</b>			
A5	Subject	-	
B5	Catalog Number	-	
C5	Module Name	-	
D5	Credit unit of module	-	
E5	Grade attained	-	
F5	Grade Point of Module	=XLOOKUP(E5,'GPA Grading System'!\$A\$2:\$A\$12,'GPA Grading System'!\$B\$2:\$B\$12,0,0,1)	
G5	Credit Unit x Grade Point	=D5*F5	
H5	GPA for Semester 3.2	=ROUND(G6/D6,2)	
I5	Cumulative GPA	=ROUND((G56+G45+G36+G26+G16+G6)/(D56+D45+D36+D26+D16+D6),4)	
D6	Total credit units for semester 3.2	=D5	
G6	Total Credit units x Grade Point for semester 3.2	=G5	
<b>Semester 3.1 - April 2022</b>			
A10	Subject	-	
B10	Catalog Number	-	
C10	Module Name	-	
D10	Credit unit of module	-	
E10	Grade attained	-	
F10	Grade Point of Module	=XLOOKUP(E10,'GPA Grading System'!\$A\$2:\$A\$12,'GPA Grading System'!\$B\$2:\$B\$12,0,0,1)	
G10	Credit Unit x Grade Point	=D10*F10	
H10	GPA for Semester 3.1	=ROUND(G16/D16,2)	
I10	Cumulative GPA	=ROUND((G56+G45+G36+G26+G16)/(D56+D45+D36+D26+D16),4)	
D16	Total credit units for semester 3.1	=SUM(D10:D15)	
G16	Total Credit units x Grade Point for semester 3.1	=SUM(G10:G15)	
<b>Semester 2.2 - October 2021</b>			
A20	Subject	-	
B20	Catalog Number	-	
C20	Module Name	-	
D20	Credit unit of module	-	
E20	Grade attained	-	
F20	Grade Point of Module	=XLOOKUP(E20,'GPA Grading System'!\$A\$2:\$A\$12,'GPA Grading System'!\$B\$2:\$B\$12,0,0,1)	
G20	Credit Unit x Grade Point	=D20*F20	
H20	GPA for Semester 2.2	=ROUND(G26/D26,2)	
I20	Cumulative GPA	=ROUND((G56+G45+G36+G26)/(D56+D45+D36+D26),4)	
D26	Total credit units for semester 2.2	=SUM(D20:D25)-D25	
G26	Total Credit units x Grade Point for semester 2.2	=SUM(G20:G25)	
<b>Semester 2.1 - April 2021</b>			
A30	Subject	-	
B30	Catalog Number	-	
C30	Module Name	-	
D30	Credit unit of module	-	
E30	Grade attained	-	
F30	Grade Point of Module	=XLOOKUP(E30,'GPA Grading System'!\$A\$2:\$A\$12,'GPA Grading System'!\$B\$2:\$B\$12,0,0,1)	
G30	Credit Unit x Grade Point	=D30*F30	
H30	GPA for Semester 2.1	=ROUND(G36/D36,2)	
I30	Cumulative GPA	=ROUND((G56+G45+G36)/(D56+D45+D36),4)	
D36	Total credit units for semester 2.1	=SUM(D30:D35)-D33	
G36	Total Credit units x Grade Point for semester 2.1	=SUM(G30:G35)	
<b>Semester 1.2 October 2020</b>			
A40	Subject	-	
B40	Catalog Number	-	
C40	Module Name	-	
D40	Credit unit of module	-	
E40	Grade attained	-	
F40	Grade Point of Module	=XLOOKUP(E40,'GPA Grading System'!\$A\$2:\$A\$12,'GPA Grading System'!\$B\$2:\$B\$12,0,0,1)	
G40	Credit Unit x Grade Point	=D40*F40	
H40	GPA for Semester 1.2	=ROUND(G45/D45,2)	
I40	Cumulative GPA	=ROUND((G56+G45)/(D56+D45),4)	
D45	Total credit units for semester 1.2	=SUM(D40:D44)	
G45	Total Credit units x Grade Point for semester 1.2	=SUM(G40:G44)	
<b>Semester 1.1 - April 2020</b>			
A49	Subject	-	
B49	Catalog Number	-	
C49	Module Name	-	
D49	Credit unit of module	-	
E49	Grade attained	-	
F49	Grade Point of Module	=XLOOKUP(E49,'GPA Grading System'!\$A\$2:\$A\$12,'GPA Grading System'!\$B\$2:\$B\$12,0,0,1)	
G49	Credit Unit x Grade Point	=D49*F49	
H49	GPA for Semester 1.1	=ROUND(G56/D56,2)	
I49	Cumulative GPA	=ROUND(G56/D56,4)	
D56	Total credit units for semester 1.1	=SUM(D49:D55)-D53	
G56	Total Credit units x Grade Point for semester 1.1	=SUM(G49:G55)	
<b>Summary</b>			
D59	GPA for Semester 1.1 - April 2022	=ROUND(G56/D56,2)	
E59	Cumulative GPA as of Semester 1.1 - April 2022	=ROUND(G56/D56,4)	

Grade	Grade Point	Description
AD	4	Distinction
A+	4	Excellent
A	4	Excellent
B+	3.5	Very good
B	3	Very good
C+	2.5	Good
C	2	Good
D+	1.5	Pass
D	1	Pass
F	0	Fail
PM		Pass with Merit

### Grade Point Average (GPA)

GPA will be used to measure the academic standing of a student. The Current GPA is calculated based on the graded modules taken in that semester. Please refer to the following illustration on the computation.

The method of computing the Current Grade Point Average (Current GPA) for six modules with one non-graded module, in a particular semester is as shown below:

$$\text{Current GPA} = \frac{\text{Sum of (Credit Units x Grade Points)}}{\text{Total current semester credit units (graded modules)}}$$

Module	Credit Unit	Grade	Grade Point	(Credit Unit x Grade Point)
Module A	4	AD	4.0	16
Module B	5	A	4.0	20
Module C	5	B	3.0	15
Module D	4	C+	2.5	10
Module E	2	F	0.0	0
Module F	3	PX	-	-
Total credit units enrolled	23			
Less credit units of non-graded module (Module F)	3		Total	61
Total credit units earned for the semester	20			

$$\text{Current GPA} = \frac{\text{Sum of (Credit Units x Grade Points)}}{\text{Total current semester credit units (graded modules)}}$$

$$= \frac{16 + 20 + 15 + 10 + 0}{4 + 5 + 5 + 4 + 2}$$

$$= \frac{61}{20}$$

$$= 3.05$$

**Note:** Non-graded Module F is excluded in the calculation. Student failed Module E.