

TAITA COLLEGE

NCEA Level 2&3 Science Academy

In 2019 at Level 2 we are running a Science Academy course replacing Level 2 Physics, Chemistry and Biology. In This course over a period of two years students will be expected to study Level 2 & 3 Physics and Chemistry and Level 3 Biology

This is the second year of the course

Students will continue with the below given Achievement standards

endorsement and 3 UE Domains are achievable in this course.

Standard	Title	Credits	Internal/ External	L2/3Lit/Num	U.E. Lit	Assessment Date
Bio: As 91604 : 3 Credits + Bio: AS 91607 : 3 Credits (L3)	Research:	3 +3	I	YES Lit		11- 15th March
AS 91388+ AS91393 (Chem)	Spectroscopy+ Oxidation Reduction	3+3	I	YES NUM		18- 29 March
AS 91164 + AS91390 (CHEM)	Thermochemical and Energy changes	10	E	YES Lit		External Examination
AS 91165 + AS91391(CHEM)	Organic Chemistry	8	E	YES NUM		External Examination
AS91173+ AS91526 (Phy) Bio: AS 91602 : 3 Credits (L3)	Electromagnetism	12	E	YES Num	YES	External Examination
AS91170+ As 91523(PHY)	Waves	8	E	YES NUM		External Examination

AS 91606(Bio): 3 Credits	Human Evolution	4	I	YES Lit	YES	External Examination
--------------------------	-----------------	---	---	------------	-----	----------------------

By the end of this year (2020): Students are expected to get three UE Domains in Physics, Chemistry & Biology.

TAITA COLLEGE NCEA Level 2 Science (202)

Level 2 Science is highly academic subject with a combination of Level 2 Physics and Chemistry. This subject offers endorsements in 2 subjects: Physics and Chemistry.

It is UE Domain Subject and a pre-requisite for Engineering and many other STEM related careers.

Standard	Title	Credits	Internal/ External	Lit/Num	U.E. Lit	Assessment Date
AS 91525	MODERN PHYSICS	3	I	YES NUM		
AS91521	NON-LINEAR PRACTICAL INVESTIGATION	4	I	YES NUM		
AS 91524	MECHANICS	6	E	YES NUM		EXTERNAL EXAMINATION
AS 91162	Identification of ions	3	I	YES NUM		Internal EXAMINATION
AS 91523	Waves	4	E	YES NUM		EXTERNAL EXAMINATION
AS91167	Oxidation Reduction	3	I	Yes		Internal EXAMINATION
As 91164	Thermochemical Energy and bonding	5	E			EXTERNAL EXAMINATION

As91167	Chemical Reactivity	4	E			EXTERNAL EXAMINATION
AS91163+AS91169	Research	6	I	YES		Internal EXAMINATION

TAITA COLLEGE

NCEA Level 1 SCIENCE (101)

20 are internal and 12 by external exam at the end of the year.

There are three compulsory internally assessed achievement standards:

During the year there will be no resubmission opportunity for any standards, if the student is very close to achieving the standard. Feedback will be given at the time of the exercise and candidates are urged to take advantage of this.

There are Two externally assessed achievement standards:

Unless the students secure 16 credits they will not be allowed to write EXTERNAL

To advance to Level 2, a student must achieve 12 credits in the external exam

OR 14 credits overall, including – one standard in the external exam.

An endorsement is able to be achieved in this course.

Standard	Title	Credits	Internal/ External	L1 Lit/Num	U.E. Lit	Assessment Date
AS 90925	Heart Rate	4	I	Yes Num	No	4 th to 8 th March
AS 90930	Rate of Reactions	4	I	Yes Num		29 th to 3 rd May
AS 90935	<i>Linear Graphs</i>	4	I	Yes NUM	No	27- 31 st May
AS 90944	<i>Acids and Bases</i>	4	E	Yes Lit	No	External
AS 90940	Mechanics	4	E	Yes NUM		External Examination
AS 90946	Metals Re-assessment	4	I	Yes NUM		29- 2 nd of Aug
AS90943	Hangi and Umu Re-assessment.	4	I	Yes Lit		14-18 Oct

TAITA COLLEGE

NCEA Level 2 Science– Internal Science(201)

This course is designed for the student who achieved less than 14 credits at level 1 Science. It caters for those who struggle with examinations. It is made up of SIX Achievement standards producing 21 credits.

There are SIX compulsory internally assessed achievement standards:

During the year there will be NO resubmission opportunity to be assessed for all standards, if the student is very close to achieving the standard. Feedback will be given at the time of the exercise and candidates are urged to take advantage of this.

An endorsement IS NOT able to be achieved in this course.

Standard	Title	Credits	Internal/ External	L1 Lit/Num	U.E. Lit	Assessment Date
AS 91160 (BIO)	Investigate Biological Material at the Microscopic Cell	3		Yes Lit	No	11-15 th March
AS 91154 (Bio)	Analyse the Biological Validity of Information presented to the public. Research on STEM CELLS (running simultaneously with AS91160)	4		Yes Lit	No	1-05 th April
AS 91161 (Chem)	Carry out Quantitative Analysis	4		Yes Lit	No	27-31 st May
AS 91162 (Chem)	Carry out Procedures to Identify ions present in solution	3		Yes Lit	No	24-28 th June

AS 91168 (Phy)	Carry out a practical physics investigation that leads to a Non- linear relationship (graph)	4		Yes Lit	No	2-6 th Sept
AS 91172 (Phy)	Demonstrate understanding of Atomic and Nuclear Physics- Nuclear Reactions: 3 Credits - Internal	3		Yes Lit	No	21-25 th Oct

TAITA COLLEGE
NCEA Level 3 General Science– Internal Science(301)

Internal Science(301)

This course is designed for the student who achieved less than 14 credits at level 2 Science. It caters for those who struggle with examinations. It is made up of 4 Achievement standards producing 16 credits. **SCI 301 IS A UE DOMAIN SUBJECT**

University requirements

It is suggested that if students want to pursue Biology at university level that they should aim for at least achieved in all standards offered

No Reassessment opportunity, strict timelines, Anyone missing the deadline, will be discontinued from Sci 301

Standard	Title	Credits	Internal/ External	L1 Lit/Num	U.E. Lit	Assessment Date
AS 91601 (Bio):	Carry out a practical in the biological context, with guidance- Practical assessment:	4		Yes Lit	No	11-15 th March
AS 91415	Investigate an Aspect of Astronomy: Research paper	4		Yes Lit	No	1-05 th April
AS 91161 (Chem)	Carry out Quantitative Analysis	4		Yes Lit	No	24-28 th June
AS 91521 (Phy)	Carry out a practical investigation to test a physics theory relating two variables in a non-linear relationship.	4		Yes Lit	No	2-6 th Sept

--	--	--	--	--	--	--

TAITA COLLEGE
NCEA Level 3 Biology– Bio(301)

Biology(301)

This course is designed for the student who have achieved well in Level one Science and Level 2 Science. It caters for those who would like to accelerate themselves and also further their career in Biology.

University requirements

It is suggested that if students want to pursue Biology at university level that they should aim for at least achieved in all standards offered

No Reassessment opportunity, strict timelines, Anyone missing the deadline, will be discontinued from Bio301

This is a UE Subject and endorsement is available

Standard	Title	Credits	Internal/ External	L1 Lit/Num	U.E. Lit	Assessment Date
AS 91601 (Bio):	Carry out a practical in the biological context, with guidance- Practical assessment:	4	I	Yes Lit	Yes	11-15 th March
AS 91602	Integrate biological knowledge to develop an informed response to a socio-scientific issue	3	I	Yes Lit	Yes	1-05 th April
AS 91604	Demonstrate understanding of how an animal maintains a stable internal environment	3	I	Yes Lit	Yes	24-28 th June
AS 91605	Demonstrate understanding of evolutionary processes leading to speciation	4	E	Yes Lit	Yes	External Examination
AS91606	Demonstrate understanding of trends in human evolution	4	E	Yes Lit	Yes	External Examination

