NBCC

PROGRAM STRUCTURE

INFORMATION TECHNOLOGY: PROGRAMMER-ANALYST
ITPA

2021 - 2023

AREA OF STUDY

- Business Management
- Compiler Construction
- Computer Engineering Technology
- Database Management
- Health and Safety
- Manufacturing
- Mathematics
- Multimedia Computing Science
- Operating Systems
- Personal Development
- Programming
- Project Management
- Systems Analysis and Design
- Written Communication Techniques

CURRICULUM CHART

COMPULSORY COURSES

Program Title: Information Technology: Programmer-Analyst						**Code:** ITPA		
Duration: The requirements for this diploma program may be achieved within two academic years of full-time study.						**Number of Courses:** 34		

CODE	SIMS CODE	TITLE		EFFECTIVE DATE	UNITS	HOURS		PREREQUISITE(S)	COREQUISITE(S)
						SCHEDULED	NOMINAL		
BMGE1157C	675487	Entrepreneurship: Ideation and Strategies		2017-03-24	2	90	90	None	None
CEIO1058C	677061	Systems I: Hardware Components and Set Up		2021-03-18	1	45	45	None	None
COMC1000C	677124	Introduction to Development Tools		2021-03-20	1	45	45	None	*PROG1017G (PROG1260)
COMM1000E	677067	Technical Writing and Research		2021-03-18	1	45	45	None	None
COMM1155	668286	Applied Writing Skills		2009-01-01	1	45	45	None	None
DATA1024	668529	Introduction to SQL		2013-05-23	1	45	45	None	None
DATA1025	668530	Intermediate SQL		2013-05-23	1	45	45	DATA1024	None
DATA1028	668656	Database Design		2014-05-29	1	45	45	None	None
DATA1034C	675455	Data Retrieval and Visualization		2017-06-01	1	45	45	DATA1025	None
MATH1183B	677076	Computer Math and Statistics		2021-03-18	1	45	45	None	None
MNFT1057A	675326	Mechatronics Fundamentals		2017-03-23	1	45	45	PROG1017G	None
MULT1083	668304	Fundamentals of Web Design		2013-05-23	1	45	45	None	None
MULT1170	674389	Responsive Web Design		2014-05-29	1	45	45	MULT1083	None
OSSE1027F	674693	Linux Fundamentals		2015-03-20	2	90	90	None	None
PERS1065E	677028	Interpersonal Communication		2021-06-01	1	45	45	None	None
PERS1070E	677031	Employment Strategies		2021-06-01	1	45	45	None	None
PERS1228C	677066	Orientation to Community Service		2021-06-01	0	7	7	None	None
PROG1017G	675359	Introduction to Programming		2016-05-27	2	90	90	None	None
PROG1121K	677077	Database Programming		2021-03-18	2	90	90	DATA1024 *PROG1311B (PROG1261)	None
PROG1128	668183	JavaScript Programming		2013-06-01	1	45	45	MULT1083	None
PROG1191	668503	PHP		2015-05-28	2	90	90	MULT1084 (*MULT1170) DATA1025	None
PROG1197I	675633	Individual System Development Project		2017-12-02	4	135	180	SYST1018C PROG1121K PROG1313B DATA1025	None
PROG1200E	674683	Practicum: Programmer Analyst		2015-03-20	4	360	360	None	None
PROG1303E	675452	Java Programming		2017-06-01	1	45	45	PROG1311B	None
PROG1311B	675360	Object Oriented Programming		2017-03-23	2	90	90	PROG1017G	None
PROG1313B	675476	Advanced Java Programming		2017-06-02	1	45	45	PROG1303E	None
PROG1317B	677088	Advanced JavaScript		2021-03-18	1	45	45	MULT1170 PROG1128 *PROG1311B (PROG1261)	None
PROG1321B	677091	Networking for Programmers		2021-03-19	1	45	45	*PROG1017G (PROG1260)	None

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Program Title: Information Technology: Programmer-Analyst **Code:** ITPA

Duration: The requirements for this diploma program may be achieved within two academic years of full-time study. **Number of Courses:** 34

CODE	SIMS CODE	TITLE		EFFECTIVE DATE	UNITS	HOURS		PREREQUISITE(S)	COREQUISITE(S)
						SCHEDULED	NOMINAL		
PROJ1029	668360	Project Management		2015-05-28	1	45	45	None	None
SECU1221G	677064	Work Safely		2021-06-01	0	15	15	None	None
SYST1017	668532	Object Oriented Analysis and Design		2014-05-29	2	90	90	None	None
SYST1018C	675076	System Analysis and Design		2016-05-26	3	90	135	PROJ1029 SYST1017 DATA1028	None
SYST1033	672878	User Interface Design		2011-09-03	1	45	45	None	None
SYST1038	674285	Quality Assurance Testing		2013-08-10	1	45	45	None	None
Total number of hours:						2227	2317		

PROGRAM SPECIFIC ELECTIVE

REQUIRED CREDITS: 1

Program Title: Information Technology: Programmer-Analyst						**Code:** ITPA		
Duration: The requirements for this diploma program may be achieved within two academic years of full-time study.						**Number of Courses:** 2		

CODE	SIMS CODE	TITLE		EFFECTIVE DATE	UNITS	HOURS		PREREQUISITE(S)	COREQUISITE(S)
						SCHEDULED	NOMINAL		
PROG1093	668355	Alternative Solutions		2009-07-01	1	45	45	None	None
PROG1305G	676401	Android Programming		2020-03-19	1	45	45	PROG1090 (PROG1303)	None

* Prerequisite or associated course selected for this program

TOTAL REQUIRED CREDITS: 48

Delivery Sequence

* Specific Electives

2021 September Intake

Term Fall 2021 1219 - Total required elective credits (0)

CODE	SIMS CODE	TITLE	EFFECTIVE DATE	CREDITS	SCHEDULED HOURS	NOMINAL HOURS	PREREQUISITE(S)	COREQUISITE(S)
COMC1000C	677124	Introduction to Development Tools	2021-03-20	1	45	45		*PROG1017G (PROG1260)
COMM1155	668286	Applied Writing Skills	2009-01-01	1	45	45	None	None
DATA1028	668656	Database Design	2014-05-29	1	45	45	None	None
MATH1183B	677076	Computer Math and Statistics	2021-03-18	1	45	45	None	None
MULT1083	668304	Fundamentals of Web Design	2013-05-23	1	45	45	None	None
MULT1170	674389	Responsive Web Design	2014-05-29	1	45	45	MULT1083	None
PERS1065E	677028	Interpersonal Communication	2021-06-01	1	45	45	None	None
PERS1228C	677066	Orientation to Community Service	2021-06-01	0	7	7	None	None
PROG1017G	675359	Introduction to Programming	2016-05-27	2	90	90	None	None
SECU1221G	677064	Work Safely	2021-06-01	0	15	15	None	None
SYST1033	672878	User Interface Design	2011-09-03	1	45	45	None	None

Term Winter 2022 1221 - Total required elective credits (0)

CODE	SIMS CODE	TITLE	EFFECTIVE DATE	CREDITS	SCHEDULED HOURS	NOMINAL HOURS	PREREQUISITE(S)	COREQUISITE(S)
CEIO1058C	677061	Systems I: Hardware Components and Set Up	2021-03-18	1	45	45	None	None
DATA1024	668529	Introduction to SQL	2013-05-23	1	45	45	None	None
DATA1025	668530	Intermediate SQL	2013-05-23	1	45	45	DATA1024	None

CODE	SIMS CODE	TITLE	EFFECTIVE DATE	CREDITS	SCHEDULED HOURS	NOMINAL HOURS	PREREQUISITE(S)	COREQUISITE(S)
PROG1128	668183	JavaScript Programming	2013-06-01	1	45	45	MULT1083	None
PROG1311B	675360	Object Oriented Programming	2017-03-23	2	90	90	PROG1017G	None
PROJ1029	668360	Project Management	2015-05-28	1	45	45	None	None
SYST1017	668532	Object Oriented Analysis and Design	2014-05-29	2	90	90	None	None
SYST1038	674285	Quality Assurance Testing	2013-08-10	1	45	45	None	None

Term Spring 2022 1224 - Total required elective credits (0)

CODE	SIMS CODE	TITLE	EFFECTIVE DATE	CREDITS	SCHEDULED HOURS	NOMINAL HOURS	PREREQUISITE(S)	COREQUISITE(S)
PROG1121K	677077	Database Programming	2021-03-18	2	90	90	DATA1024 *PROG1311B (PROG1261)	None
PROG1317B	677088	Advanced JavaScript	2021-03-18	1	45	45	MULT1170 PROG1128 *PROG1311B (PROG1261)	None
PROG1321B	677091	Networking for Programmers	2021-03-19	1	45	45	*PROG1017G (PROG1260)	None

Term Fall 2022 1229 - Total required elective credits (0)

CODE	SIMS CODE	TITLE	EFFECTIVE DATE	CREDITS	SCHEDULED HOURS	NOMINAL HOURS	PREREQUISITE(S)	COREQUISITE(S)
BMGE1157C	675487	Entrepreneurship: Ideation and Strategies	2017-03-24	2	90	90	None	None
DATA1034C	675455	Data Retrieval and Visualization	2017-06-01	1	45	45	DATA1025	None
PERS1070E	677031	Employment Strategies	2021-06-01	1	45	45	None	None
PROG1191	668503	PHP	2015-05-28	2	90	90	MULT1084 (*MULT1170) DATA1025	None
PROG1303E	675452	Java Programming	2017-06-01	1	45	45	PROG1311B	None
PROG1313B	675476	Advanced Java Programming	2017-06-02	1	45	45	PROG1303E	None
SYST1018C	675076	System Analysis and Design	2016-05-26	3	90	135	PROJ1029 SYST1017 DATA1028	None

Term Winter 2023 1231 - Total required elective credits (1)

CODE	SIMS CODE	TITLE	EFFECTIVE DATE	CREDITS	SCHEDULED HOURS	NOMINAL HOURS	PREREQUISITE(S)	COREQUISITE(S)
COMM1000E	677067	Technical Writing and Research	2021-03-18	1	45	45	None	None
MNFT1057A	675326	Mechatronics Fundamentals	2017-03-23	1	45	45	PROG1017G	None
OSSE1027F	674693	Linux Fundamentals	2015-03-20	2	90	90	None	None
* PROG1093	668355	Alternative Solutions	2009-07-01	1	45	45	None	None
PROG1197I	675633	Individual System Development Project	2017-12-02	4	135	180	SYST1018C PROG1121K PROG1313B DATA1025	None

CODE	SIMS CODE	TITLE	EFFECTIVE DATE	CREDITS	SCHEDULED HOURS	NOMINAL HOURS	PREREQUISITE(S)	COREQUISITE(S)
* PROG1305G	676401	Android Programming	2020-03-19	1	45	45	PROG1090 (*PROG1303E)	None

Term Spring 2023 1234 - Total required elective credits (0)

CODE	SIMS CODE	TITLE	EFFECTIVE DATE	CREDITS	SCHEDULED HOURS	NOMINAL HOURS	PREREQUISITE(S)	COREQUISITE(S)
PROG1200E	674683	Practicum: Programmer Analyst	2015-03-20	4	360	360	None	None

UNSCHEDULED ELECTIVES

CODE	SIMS CODE	TITLE	EFFECTIVE DATE	CREDITS	SCHEDULED HOURS	NOMINAL HOURS	PREREQUISITE(S)	COREQUISITE(S)