

1.1 ACADEMIC PROGRAM

Senior High School (SHS) covers the last two years of the K to 12 program and includes Grades 11 and 12. In SHS, students go through a core curriculum and subjects under a track of their choice.

The Senior High School (SHS) of Don Bosco Technical Institute of Makati is housed in the new building in the campus, the Father Charles Braga Building. The Senior High School Program is implemented by experienced, competent, and committed Salesian Educators who ensure that it provides quality education and holistic formation through a curriculum with technological orientation that promotes Gospel values.

The DBTI Senior High School is the Institution's response to the call for a curriculum that meets the ASEAN Qualifications Framework (AQF) and the Philippine Qualifications Framework (PQF). It therefore equips the learners with the competencies needed in the workplace, be it at the local or international setting.

Aside from providing learners with academic and technical knowledge and skills needed for them to be globally competitive, the DBTI SHS also provides its learners with education firmly grounded on the doctrines of the Catholic faith. On top of the core, applied and specialized subjects mandated by the Department of Education, it offers Christian Living subjects aimed to develop among learners an intimate and personal experience of their faith thus, forming the learners to become good Christians and upright citizens. The learners are given opportunities to be immersed with the word of God through regular Eucharistic celebrations and recollections.

The DBTI Senior High School offers two (2) strands under the Academic Track. These include:

1. Accountancy and Business Management (ABM) Strand

The Accountancy and Business Management Strand provides adequate pre-university training for those who are inclined to pursue careers in entrepreneurship, banking, accountancy, finance and management in the corporate setting and in the tourism and hotel and restaurant industries. Like the other strands it is also composed of core, applied and specialized subjects. An important component of this strand is an off-campus practicum in relevant institutions.

2. Science, Technology, Engineering and Mathematics (STEM) Strand

The Science, Technology, Engineering and Mathematics Strand offers the needed academic grounding for those who intend to pursue tertiary programs that are geared towards the physical sciences, mathematics, engineering and technology. It includes core subjects (subjects that are true to all strands), contextualized subjects (subjects that are also true to all the strands but are given a particular bent

according to the nature of the strand). A unique feature of the strand are the specialized subjects that prepare the students for the tertiary program they intend to pursue. It has an immersion subject that provides a venue for the application of the knowledge gained in both the contextualized and specialized subjects.

Senior High School Subjects - Academic Track

Core Learning Areas and Subjects		Hours per Semester
Language	Oral Communication	80
	Reading & Writing	80
	<i>Komunikasyon at Pananaliksik sa Wika at Kulturang Pilipino</i>	80
	<i>Pagbasa at Pagsusuri ng Iba't Ibang Teksto Tungo sa Pananaliksik</i>	80
Humanities	21 st Century Literature from the Philippines and the World	80
	Contemporary Philippine Arts from the Regions	80
Communication	Media & Information Literacy	80
Mathematics	General Mathematics	80
	Statistics & Probability	80
Science	Earth Science (STEM) / Earth and Life Science (ABM)	80
	Disaster Readiness and Risk Reduction (STEM)	80
	Physical Science (ABM)	80
Philosophy	Introduction to Philosophy of the Human Person	80
Christian Living	CL1 God the Father CL2 Love and Sexuality CL3 Catholic Social Teachings CL4 Evangelization	40
PE and Health	Physical Education and Health Health-Optimizing P.E. (H.O.P.E) 1 Health-Optimizing P.E. (H.O.P.E) 2 Health-Optimizing P.E. (H.O.P.E) 3 Health-Optimizing P.E. (H.O.P.E) 4	20
Social Science	Understanding Culture, Society and Politics	80

	Personal Development/Pansariling Kaunlaran	80
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APPLIED TRACKS

Academic Tracks		Hours per Semester
1	English for Academic and Professional Purposes	80
2	Practical Research 1	80
3	Practical Research 2	80
4	Empowering Technology E-Tech 1 E-Tech 2	80
5	Inquiries, Investigations and Immersion	80
6	Entrepreneurship	80

SPECIALIZED SUBJECTS

Science, Technology, Engineering and Mathematics (STEM) Strand		Hours per Semester
STEM Strand 1	Pre-Calculus	80
STEM Strand 2	Basic Calculus	80
STEM Strand 3	General Biology 1	80
STEM Strand 4	General Biology 2	80
STEM Strand 5	General Physics 1	80
STEM Strand 6	General Physics 2	80
STEM Strand 7	General Chemistry 1	80
STEM Strand 8	General Chemistry 2	80
STEM Strand 9	Work Immersion/ Research(Capstone Project)/ Career Advocacy/ Culminating Activity	80

Accountancy, Business and Management (ABM) Strand	Hours per Semester

ABM Strand 1	Applied Economics	80
ABM Strand 2	Business Ethics and Social Responsibility	80
ABM Strand 3	Fundamentals of Accountancy, Business and Management 1	80
ABM Strand 4	Fundamentals of Accountancy, Business and Management 2	80
ABM Strand 5	Business Math	80
ABM Strand 6	Business Finance	80
ABM Strand 7	Organization and Management	80
ABM Strand 8	Principles of Marketing	80
ABM Strand 9	Work Immersion/ Research/Career Advocacy/ Culminating Activity i.e. Business Enterprise Simulation	80

1.1 EMPOWERMENT TECHNOLOGY

The Empowerment Technology courses are additional courses to the STEM and ABM Strands under the Applied Track. Below are the guidelines in choosing the Empowerment Technology for ABM and STEM Strands.

1.1.1 STEM Strand

Students will take one (1) technology per semester based on their choice/interest (AT/MT, ET/ELX, CT and IDT)

1.1.2 ABM Strand

Students will take the Computer Technology offering only per semester

EMPOWERMENT TECHNOLOGY 1 (FIRST SEMESTER)			
SUBJECT AREA/ COURSE/ STRAND	COUSE DESCRIPTION	Hours per Semest er	Grade and Semeste r
Industrial Drafting Technology (IDT): 2D & 3D Digital Modeling (STEM)	<ul style="list-style-type: none"> Application of AutoCAD software in creating 2D and 3D Designs 	2 hours	G11-1
Electronics Technology (ELX):	<ul style="list-style-type: none"> Fundamentals of robotics, programming 	2 hours	G11-1

Robotics (STEM)	and its application		
Automotive Technology (AT): Internal Combustion Engines (STEM)	<ul style="list-style-type: none"> Principles involving internal engines; fuel properties and injection, combustion, carburetion and injection, engine performance and testing 	2 hours	G11-1
Computer Technology (CT): <ul style="list-style-type: none"> Excel Advanced and Visual Basic for Applications 	<ul style="list-style-type: none"> Collation, manipulation, and analysis of numerical data using various formulas, functions and Visual Basic for Application (VBA) 	2 hours	G11-1
EMPOWERMENT TECHNOLOGY 2 (SECOND SEMESTER)			
Industrial Drafting Technology (IDT): 3D Modeling & Animation (STEM)	<ul style="list-style-type: none"> 3D modeling , rendering and animation using animation software 	2 hours	G11-2
Electrical Technology (ET): Electrical Motor Control (STEM)	<ul style="list-style-type: none"> Introduction to three-phase motor for AC motor application 	2 hours	G11-2
Mechanical Technology (MT): <ul style="list-style-type: none"> Shielded Metal Arc Welding (SMAW) Machining Process (STEM) 	<ul style="list-style-type: none"> Application of Shielded Metal Arc Welding processes in metal designs through mathematical calculations Application of lathe and milling operations in manufacturing processes through mathematical and scientific calculations 	2 hours	G11-2
Computer Technology (CT): <ul style="list-style-type: none"> Database Fundamentals (STEM & ABM) 	<ul style="list-style-type: none"> Basic concepts regarding database creation, manipulation and analysis 	2 hours	G11-2