The world we live in: A perspective on blended learning and music education in higher education

This article investigates the incorporation of Picciano’s *Blending with purpose multimodal model* into an undergraduate music education module. This multimodal model advocates that teachers and instructional designers should use multiple approaches to meet the needs of a wide spectrum of students. The purpose of this intrinsic case study was to understand how the *Blending with purpose multimodal model* can be applied to facilitate teaching and learning of music education for Bachelor of Music (BMus) and Bachelor of Arts (BA) Music students. The initial reason for conducting this research was to restructure the music education curriculum, which, until 2013, had mostly focused on face-to-face teaching and learning approaches. The use of digital media, which initiated e-learning technologies, changed teaching and learning experiences. Blended learning as the teaching model proved to be a useful and appropriate method in the striving to develop new approaches to teaching and learning in music education.

From the interpretation of research findings, a teaching and learning model was created that could be implemented in teaching music in a higher education context.

**Keywords:** multimodal learning model; hybrid learning; blended learning; music education; tertiary institutions; undergraduate music curriculum; South Africa.

Vignette: Evacuate!

It is the end of January 2016. Staff members are prepared for the new academic year. They have fresh energy after the December holiday and creative new ideas for presenting lectures. Suddenly a WhatsApp message appears on our cell phones: ‘Student protesters attempted to disrupt first-year welcoming. Safety remains the priority. Please leave the campus immediately’. During the following days more and more phone messages of this type were sent by management.

The university comes to a standstill for a few days. No first-year welcoming, no classes, no teaching. Why this research?

The reality of the disruptions at South African tertiary education institutions from 2015 was not the initial motivation for the research, but the findings of this study may now be more relevant and significant after the experiences of tertiary institutions during the #FeesMustFall campaign.

The research question initially posed for this study was, ‘how can the *Blending with purpose multimodal model* be applied to the teaching and learning of music education (ME)?’. The answer to this question could lead to an understanding that informs the redesigning of ME curricula in national as well as international contexts. For the purpose of this article, the focus was on understanding how the *Blending with purpose multimodal model* could be applied to complement and supplement the teaching and learning experiences of students in undergraduate ME.

The case studies by Bell-Robertson (2014) and Naughton (2012), as well as a narrative-informed case study by Partti (2014), in which the authors explored musical experiences and creativity in an online community, prompted the idea to delve deeper into this topic. Examples of ethnographical case studies include those by Brändström, Wiklund and Lundström (2012), who examined distance ME, and Waldron (2013), who explained the value of user-generated content in music teaching and learning. Partti (2014) investigated collaborative composing in an online music community using an instrumental case study. Our study complements these studies with research that investigated multiple approaches to online teaching and learning for pre-service music educators. The international relevance of and interest in this issue made it evident that research conducted in South Africa can contribute towards advancing international skilfulness. The process of this research was...
presented at two international conferences of ME – International Society for Music Education (ISME) 2014 (Porto Alegre, Brazil) and ISME 2016 (Glasgow, Scotland) at the research commission for ME.

**Methodology**

Full-time undergraduate music students who enrolled for ME modules at the University of Pretoria (UP) in 2014 and 2015 were selected as participants. The music students in the ME modules came from different cultural groups. Most students were South African, but there was also one Korean student, a student from Botswana (Tswana) and a student from Malawi (Chewa). The South African students were from Sotho, Tsonga, Afrikaans, English, Greek and Turkish ethnic groups. This study was conducted during the full academic year of 2014 up to mid-2015, involving all first-year ME students (22 students – 50-min contact time per week) and all second- and third-year ME students (23 students in total – 100-min contact time per week).

Permission was obtained from the Research Ethics Committee of the Faculty of Humanities, UP, to perform qualitative research involving individuals and groups at the research site for this study. Inviting students to participate in a qualitative interview process was facilitated by the existing relationship of trust (Creswell 2013:Ch. 7) between the interviewer (in this case S.C.) and the interviewees (first-year, second-year and third-year ME students).

Open-ended focus group interviews were conducted for data collection. The interviews focused on how participants experienced the blended teaching and learning in ME at UP to optimise the facilitation of ME at the university in the future. Direct participant observation formed part of the case study (Yin 2009). The participant observer (in this case S.C.) looked at how the participants behaved in multimodal (blended learning) activities to facilitate teaching and learning in ME. Documents, audio-visual material and evidence of student online teaching and learning activities were also used for data collection with participation of all students. These documents included UP course study guides, examples of wikis, discussion board activities and online journal entries.

In order to complete the case analysis, the data were examined through the theoretical lens of Picciano’s multimodal model (Figure 1). The relevant theoretical concepts informed the process of coding and theme development (Clarke, Braun & Hayfield 2015). There were six phases in the thematic analysis: familiarisation, coding, identifying themes, revising themes, naming themes and writing the report (Braun & Clarke 2006). Data were organised and visually presented in ATLAS.ti 7.1.6 software.

The qualitative strategy for data analysis was thematic analysis. A teaching and learning model was created on the basis of the findings, that is, **planning a music education curriculum** (Figure 4). The findings of the research are of particular interest for music educators, ME students, research students and curriculum planners in higher education who are exploring different teaching and learning strategies for the future use.

Currently, approaches to teaching and learning are being challenged by several new philosophies, methodologies (Barell 2010:174–199; Dunbar-Hall 2011:14; Wiggins 2015:1–74) and innovations in learning technologies (Llaw, Huang & Chen 2007:1066; Long 2005:60; Paechter & Maier 2010; Picciano 2014:35–43). Educators who are educating the first generation of students who have grown up with the products of modern information technologies are challenged to design courses that could develop cognitive skills through technology enhanced pedagogical approaches. Academic programmes need to transfer the 21st-century skills (Carpenter & Pease 2012:36–41) into the classroom to prepare students to be able to demonstrate their skills in a professional environment. Students need to engage with the environment to construct new understandings through problem-solving experiences (Wiggins 2015:19). Professional environments require skills such as teamwork, self-direction, critical thinking, problem-solving and literacy in the 21st-century information and communications technology (ICT) (Barell 2010:176; Carpenter & Pease 2012:36–41).

Music educators have to prepare music students to be able to demonstrate these skills in a professional musical environment and to relate to their situation in order to construct new understandings in a holistic context. Garrison and Kanuka (2004:96) refer to the ‘thoughtful integration of classroom face-to-face learning experiences with online learning experiences’ as blended learning. Rovai and Jordan (2004:1) explain that ‘blended learning is a hybrid of classroom and online learning that includes some of the

--

1. CMS – course management systems, MUVE – Multi-user virtual environment, F2F – face-to-face, PPT - PowerPoint
2. Blended learning also refers to multimodal or hybrid learning.
Conveniences of online courses without the complete loss of face-to-face contact. Picciano (2009:4) recommends that educators should use multiple approaches that include face-to-face learning as well as online technologies.

Traditional approaches to curriculum design are still adopted in numerous undergraduate music programmes (Kimpton 2005:11; Morford 2007:80). Most undergraduate music programmes include modules such as musicology, theory and analysis, composition, musical performance (Harper-Scott & Samson 2009:97–218; Morford 2007:75–83) and ME pedagogy (Morford 2007:80). These courses are structured in such a way that the interaction with music occurs through the development of the student’s performing and academic abilities, but they do not integrate creative processes to develop competent music educators. The constituent elements of musicology, music theory and performance should intersect in a natural way with what students learn in ME to ensure an integrated view necessary for music educators. Understanding these connections enables students to apply musical understanding to music teaching and learning (Wiggins 2007:36–42). The application of blended learning as a creative teaching strategy to develop technical skills, performance techniques and musical skills are relevant to the world in which students live. Garrison and Kanuka (2004:99) advise that the instructor who plans to accommodate blended learning in a curriculum needs to reconsider and redesign the teaching and learning relationship in a cohesive approach. These challenges are of critical importance and cannot be ignored: ‘We are forced, as a result, to consider, once more, the issue of comprehensiveness in education, its meaning and its promise’ (Reimer 2007:1).

Multimodal or blended learning faces certain challenges in developing countries that cannot be ignored. Colleagues from the Department of Music and Dance at Kenyatta University in Kenya highlighted some issues that are also applicable to the South African context (Digolo 2012). These include the resistance of lecturers to change from traditional well-known methods of teaching and learning to developing an online pedagogy, a sphere in which they lack experience, confidence, teaching material and assessment criteria; the lack of availability of personal computers with appropriate software programs for lecturers and students; the absence of stable Internet connectivity, which means that slow dial-up speed will hamper the teaching and learning process. Hence, our curiosity and creative impulses urged us (the authors of this article) to investigate online methodologies that could be implemented at tertiary institutions.4

Student-centred pedagogical approaches located within the different ways of knowing (Luckett 2001a:55) are characteristic of South African higher education level descriptors. Preparing higher education students for the realities of the working environment is challenging because students come not only from underprivileged educational backgrounds but also from privileged ones (Howie & Pietersen 2001:7–9; Jaffer, Ng’ambi & Czerniewicz 2007:134) as well as from higher- and lower-income groups. The school-leaving requirements for admission to first-year university studies have been standardised nationally, but there are many inconsistencies in the standards of basic education in schools (Modisaotsile 2012:1–7). These diverse schooling backgrounds also mean that some music students from private music teaching environments sign up for undergraduate music programmes, but they have not studied music as a subject at school. In the light of the above conditions, Luckett (2001b:31) describes four ways of knowing and learning in a proposed epistemically diverse curriculum for South African higher education in the 21st century. These four types develop four fundamental kinds of knowledge of academic disciplines into effective and cohesive reflexive competence:

- Propositional knowledge focuses on foundational competence.
- Practical knowledge focuses on knowing how and learning by doing.
- Experiential knowledge learning takes place through engaging personally and thinking reflectively.
- Epistemic knowledge develops meta-cognition, thinking epistemically, contextually and systemically (Luckett 2001a:55).

Implementation of multimodal learning

To enrich the integration of classroom face-to-face learning experiences with online learning experiences (i.e. blended learning), Le Rossignol (2014:1–16) propose that specific application combinations should characterise blended learning:

- integration of any online and traditional (face-to-face) learning (Graham 2005:4)
- different focal points for learning: skills-driven, attitude-driven and competency-driven learning (Valiathan 2002:1–4)
- connections between instructional technologies (media) with different methods of face-to-face learning (Graham 2005:4)
- different web-based technologies in an e-learning environment.

3. Although developed countries do not experience these problems, some African countries are still struggling with Internet connectivity and up-to-date computers and software programs.

4. The research was conducted by Cruywagen (2015) at the Department of Music, University of Pretoria. Documents for data analysis included online assignments presented to discussion boards and in journals, research essays and wikis. Lecturers from different subject fields at the School of Music at North-West University were also involved with online teaching strategies.
Several researchers (Merritt 2002; Oblinger & Oblinger 2005; Salajan, Schönwetter & Cleghorn 2010; Singh 2014) have studied the characteristics of ‘digital natives’ (persons brought up with digital technologies who are familiar with computers and the Internet from an early age) and described the values and behaviours of an information-age mindset. The current student generation (Generation Z) grew up in a more technologically advanced environment than the immediately prior generations (Generation X and Generation Y). Emerging Generation Z characteristics are, for example, risk adverse, prematurely mature, pampered and protected (Singh 2014:59).

Komarraj et al. (2011:472) explain that the way in which higher education students relate to new learning information reflect their learning styles and the quality of their thinking, which is critical to learning and could possibly determine their academic success. Pedagogical approaches to undergraduate students (the theory and practice of learning) should incorporate the findings of cognitive scientists on learning styles. These studies have taken into account a number of dimensions of the learning process, including incentives for learning, personality types and the pace of instruction (Picciano 2009:11).

The indications are that multiple approaches that include the adoption of online technology may challenge and stimulate music lecturers and students to experience learning in innovative ways. We realise that scheduled teaching and learning on campuses in South Africa are nowadays often interrupted and education curricula should be restructured to accommodate any change in teaching and learning conditions. Picciano’s (2009:11) multimodal model for educators entails the use of multiple approaches, including face-to-face and online technologies.

Picciano’s (2009:4–14) multimodal model incorporates multiple perspectives to meet the needs of a wide spectrum of students:

- the sharing of content (e.g. text documents, the Internet links to websites and mashups)
- social/emotional support (e.g. oral communication)
- dialectic/questioning activities (e.g. online discussion boards)
- reflection as pedagogical strategy (e.g. online journals)
- student collaboration to generate content that could be shared (e.g. wikis)
- synthesising, evaluating and assessing learning as objectives.

Jaffer et al. (2007:136) explain that educators have to understand which educational technologies are appropriate for which learning situations. Hybrid learning tools could be used in music classroom to accommodate the collaborative constructivist perspective on ME. Multimodal activities are suitable for text-based research, collaborative learning as well as dialectical/questioning and reflective assignments. The real-life problem-solving learning approaches of creating, listening and performing in ME (Wiggins 2015:57–89) occur primarily in face-to-face sessions.

Students take more responsibility for their own learning (Carpenter & Pease 2012:37) and develop as learners and individuals by means of participating in a learning community. As active participants in their own learning, students acquire a deeper understanding of content and its meaning (Biggs 1991:27–39; Crosling, Heagney & Thomas 2009:13; Wiggins 2015:2), participate more effectively in dynamic communication and learn more academic and life skills that could be of their advantage beyond the classroom. Constructivist principles that infuse practice are changing music learning and teaching (Scott 2012), because constructivist learning environments imply that collaborative knowledge and problem-solving outcomes are built on a social level (Jonassen 1999:215–239; Wiggins 2015:24). Inductive approaches that originate in constructivism include inquiry-based and problem-based learning. Inductive methods of teaching adopt a student-centred approach; they require active learning and develop self-directed learning skills (Barell 2010:174–199; Spronken-Smith 2007:2; Vajoczki et al. 2011:2).

Multimodal learning in undergraduate ME is described, understood and interpreted within a social constructivist worldview. In this intrinsic, single-site case study, the pedagogical objectives and activities of Blending with purpose multimodal model (Picciano 2009:4–14) provided the theoretical framework to analyse the data in a context that elucidates the teaching and learning experiences of pre-service music educators in South African higher education.

Ethical consideration

Ethical approval to conduct the study was obtained from the ethics committees of the North-West University and University of Pretoria.

Findings and discussion

From the data collected, three main themes (Figure 2) emerged, which contributed to the proposed model for creating an undergraduate ME curriculum: (1) participants’ experiences, (2) Picciano’s Blending with purpose multimodal model and (3) ME curriculum.

The following sections discuss these three themes that emerge from data analysis: (1) the participants’ comments on how they experienced multimodal teaching and learning; (2) the student-centred pedagogical approaches of ME curriculum; and (3) the way Picciano’s Blending with purpose multimodal model connects with the ME curriculum’s goals and objectives.
Theme 1: Participants’ experiences

The music students responded to activities that indicated their learning preferences and learning style. Thuli
described the experience of the participants as ‘we write out what we study’. Lizette
reported that ‘with typed notes everything is beautifully
organised’. Katherine said: ‘I have to study with colours, so
instead of wasting four hours with colour pens, I just do it on
the computer’. Kim explained that the classroom must be
‘calm and very informative’. Alexis indicated that a learning
environment should in some sort of way accommodate all
students who do learn in different ways. Aileen felt: ‘I hate
reading with a passion; if I can’t see something or hear it, I’m
not interested. I get bored so quickly and I miss everything’.

All the students were part of the discipline of ME and the
data indicated that, within their diverse learning styles,
they also have specific views on teaching and learning
through the use of online technologies. Their comments may
be related to research conducted by Krätzig and Arbuthnott
(2006:241, 242), who supported the idea that each individual
uses a diverse ‘blend’ of learning modalities to learn
efficiently and effectively. Jason explained in the following
manner:

‘[A]n effective learning environment must be balanced, combined
with today’s various technologies, through interaction with
teachers in class and also a more practical online search in class –
online activities like research.’ (Jason, male, 19 years old)

Clara indicated that learning styles differ from one person to
another:

‘I prefer to learn in an interactive sort of way. If I was sitting in
class and was asked to contribute to a discussion, even though it
might not be correct, I might have thought about it more and
formulate an answer in my head without the information. For me
that would stick more than just researching the answer and
putting it on the discussion board.’ (Clara, female, 18 years old).

Although the participants represented several cultures,
their specific culture made no difference to the way they
approached multimodal teaching and learning. They grew
up with computers, the Internet and information technologies
that are always available (Salajan et al. 2010:1393). According
to Krause (2007:138), the ‘socio-economic background, age
and gender’ differences are reflected in their individual
experiences of their technological skills and practices.
This statement was confirmed by a student from Botswana
who had never used a computer before she came to university
and struggled to do online assignments at the beginning of
her first year. However, she soon developed enough
technological skills to work alone and with other class
members on online assignments.

Multimodal pedagogy also focuses on learning and
learner-centred strategies. The incorporation of blended
learning in assignments encouraged students to take more
responsibility for their own learning. Some music students
did not recognise the value of online technology to enrich
their teaching and learning in ME. A few of them were not
even concerned about taking responsibility for their own
learning of the subject content and skills. They did not
even bother to visit the online ME page to locate course
information and assignments. The music students who
were serious about studying on their own valued
instructions without the lecturer’s face-to-face assistance.
These students navigated the online module page
effortlessly, joined in discussion boards and found working
in wikis stimulating.

Most music student participants felt that online technology
embodies the way they live their lives. However, some
students struggled to use online learning activities and they
experienced themselves as not really ‘technologically
advanced’. Jason mentioned that:

‘[A]n effective learning environment must be balanced, combined
with today’s various technologies, through interaction with
teachers in class and also a more practical online search in class –
online activities like research.’ (Jason, male, 19 years old)

Theme 2: Music education curriculum

The analysis of the UP’s course study guides indicated that the
ME curriculum categories unfolded with student-
centred pedagogical approaches placed within the different
‘ways of learning’ (Luckett 2001b:31). In the first year,
students applied propositional knowledge to carry out
challenging new learning activities. Practical competence
was embodied throughout the course by creating, performing
and listening – students understood the processes of
teaching music through practical experiences. Experiential
knowledge developed when music students took
responsibility of their own learning. They started to engage
personally with course outcomes and were able to reflect on
music and its significance through understanding music as
an approach to give meaning to life experiences. At this
level music students started to bridge the gap between just

5. Pseudonyms are used to protect the identity of the participants.
knowing and becoming successful music educators. *Epistemic knowledge* engaged music students in deep, critical thinking about their future as musicians and music teachers. On this level they started to apply constructivist learning principles by planning music learning experiences and so creating a model of musicianship and musical thinking processes.

Students mentioned that new knowledge (*propositional knowledge*) could be constructed with online activities. Lebogang felt: ‘I learned a lot about the topic’; Aileen said that the wiki helped to ‘create a reliable source of information’; and Clara explained that the wiki contained ‘all the music styles that we learnt about, correctly summarised and all in one area which made it convenient, quick and easy to use’. These experiences signified that problem-solving activities in class allowed students to use different media to realise creative projects. An example of practical knowledge was illustrated when different groups in the class had to do a composing activity – one of the groups decided to use a mobile app to compose a short song. Another group wrote their song on a white board and another one used colourful sticky notes to indicate different tonic solfa levels. Practical proficiency led to the successful application of musical understanding using different learning tools.

The undergraduate ME curriculum also accommodated experiential learning to prepare music students for their future careers. Christelle mentioned that online activities allowed the students to ‘actually (apply) what we learned (from ME) in class. We have to incorporate (this) knowledge into a project like teaching examples and stuff’. The third-year music students observed and evaluated teaching and learning in the field. Some of the learning outcomes focused on understanding learning and contexts for learning in order to teach for developing musical understanding. The learning outcomes also concentrated on finding a balance between theoretical and practical information through research. The way of knowing in an epistemic knowledge approach requires students to rethink their assumptions about morals, beliefs and social responsibility. Students need to understand the integrated nature of human learning and knowing, consider the importance of a sociocultural, constructive learning process, engage in musical thinking and reflect on the pedagogical strategies they are going to use as music teachers. When students think in systemic and transdisciplinary manner, they see connections between different disciplines and evaluate different theories of knowledge.

Online learning tools allow students to work and communicate during holidays. Roland indicated that students ‘can be in separate places and different contexts’ to use online tools. Kim mentioned that online interaction could happen ‘at their own time’, whilst Corlise said: ‘it can be done over an extended period of time and can be done anywhere with an Internet connection’. Noah felt that the study material could ‘be revisited to study for exams’.

An ME course design should embrace the diversity of music students to create an environment within which they could find their own distinctive learning paths to succeed in their quest to become creative and successful music educators. Figure 3 illustrates current activities that were included in the ME curriculum processes of learning and blending with purpose.

The synthesis of categories that were combined to implement a successful curriculum design was derived from data analysis. The experienced musical life worlds of music students were the point of departure for constructing music curriculum, whilst a holistic teaching philosophy directed course goals and objectives, which were assessed accordingly. The ME curriculum was infused with online technology.

**Theme 3: Picciano’s Blending with purpose multimodal model**

Music education course goals and objectives determine how the six basic pedagogical objectives/activities of the Blending with purpose multimodal model (content, support, questioning activities, reflection, collaboration and synthesis) support the incorporation of online technologies.

**Content**: The music students agreed that it was valuable for their learning process to find all course notes online. Thuli stated that students ‘don’t need to take notes in class and can take in what the lecturer says’.

**Social and emotional support**: Music students commented that online educational communication cannot give students the one-on-one attention that they may need. Christelle indicated that ‘if you are online and you are logged in to someone’s lecture, you cannot ask if you have no idea what a word means – you lose that personal touch’. Morgan explained as follows:

> ‘[W]hen you put students in a social situation rather than learning online, we have to perform to prove that we can do what we are supposed to do – if we have online interaction we work at our own pace and might slack down a bit’.
Dialectic/questioning: Aileen had the following experience:

‘[In class you don’t have time to research and think about a reply or answer. But online I could calmly reply, get my thoughts together and post a collaborative answer – in class it can quickly turn out into an argument’.

Reflection: Online assignments allow students to reflect on the assignments already completed. During the online discussion board in class, some students went back to all the posts and read through the contributions. The journal and blog tools are appropriate collaborative tools for students to reflect upon.

Collaboration/wiki: The wiki is an interactive environment. Alexis mentioned the following:

‘[G]enerally, in music, we do our individual instruments where we are only one person. But especially in terms of the wiki, ... you get an idea of what other people think and you gain other information that you probably haven’t thought about and it adds to your information and what you know and broadens your general knowledge of music by seeing what you’ve posted and what others have posted – getting the opportunity to see other’s opinions – broadens your knowledge as you read it’.

Synthesis/evaluation: Students realised that their research papers and PowerPoint presentations were successfully uploaded online, and that the marks with added comments were available as soon as marking was completed. Thuli said, ‘I immediately can see my marks and know exactly what I have done right and where I needed more support’.

Looking at yesterday and tomorrow

Not much research has been published to establish the outcomes of structuring an entire music curriculum on the values and principles of multimodal teaching and learning. Most studies focus on student opinions on the use of online tools in a learning environment, the implication of single online activities, particular online ME developments, and improvements in the use of online modalities for professional practice.

To expand and support the ME community of inquiry, further research could include the following:

- multimodal experiences of different higher education institutions compared in a multiple case study to identify and propose useful methods of preparing future music educators in South Africa
- a study over an extended period to identify the nature of a sustained practical and effective curriculum
- the integration of online technologies to assist learning in postgraduate modules
- investigating how multimodality could add value to practical music subjects; this research could explore ideas about increasing the learning potential of students and identify online teaching resources from which both students and educators could benefit.

Although designing a new curriculum and experimenting with online activities have had an impact on lecturers’ teaching schedules, this endeavour has added value to the ME curriculum. The course goals and objectives were revised and the technologies to enhance multimodal learning were selected more purposefully. The music students were challenged to make use of online modalities to enhance their learning experiences by using new approaches to construct a fuller understanding through multimodal activities in ME.

Model for teaching multimodal music education

One of the responsibilities of an undergraduate music educator is to structure a curriculum that could support music students in shaping their own identities as musicians and music educators. Figure 4 graphically displays our teaching philosophy which could equip future music teachers to make a difference in South African communities. This could be performed by promoting a lifelong engagement with music by bringing together course learning experiences and musical experiences outside the university, and enabling students to find their own routes into teaching music most effectively.

Pedagogical approaches that affirm this philosophy concentrate on learning and learner-centred strategies. The constructive process of learning (Duffy & Cunningham 1996:5) is pragmatic and embedded in the previous life experiences of every music student (Wiggins 2015:21). The point of departure for the ME curriculum was students’ individual and personal musical understanding formed through diverse lived musical experiences. Biggs (1991:29) explains that students, influenced by their motives for attending a course, create their own learning approach to solve learning problems. Students who experience university as a necessary career opportunity adopt a surface approach to learning. A deep approach focuses on the students’ interest in the details of the task. Learning based on the achievement approach concentrates on the self-pride stemming from achieving high grades (Biggs1991:29).

A teaching and learning model, Planning a music education curriculum (Figure 4) was created on the basis of these dynamics to illustrate the diversity of considerations when planning an ME curriculum.

Conclusion

Picciano’s (2009:4-14) Blending with purpose multimodal model outlines the requirements to implement hybrid learning successfully in ME. This conceptual model is flexible and recognises that the learning needs of a wide spectrum of students should be met. Critical to this model is the recommendation that course goals and objectives should be the driving force to determine which pedagogical approaches and technologies should be used. Using this multimodal model also benefits students by encouraging them to use the online technologies that they are familiar with in the course of their everyday lives.
FIGURE 4: Planning a music education curriculum.

Acknowledgements
The authors declare that they have no financial or personal relationships which may have inappropriately influenced them in writing this article.

Competing interests
The authors have declared that no competing interest exist.

Author’s contributions
This research was conducted by S.C. with H.P. as the supervisor and co-author. This article is based on a doctoral research conducted by S.C.

Funding information
This research was supported by the National Research Foundation of South Africa (Unique Grant No.: 93160).

Data availability statement
Data sharing is not applicable to this article as no new data were created or analysed in this study.

Disclaimer
Opinions, findings, conclusions and recommendations expressed in this research are those of the authors and the National Research Foundation accepts no liability whatsoever in this regard.
References


Cruywagen, S., 2015, ‘“Blending with purpose”: A multimodal model for music education’, PhD thesis, North-West University, Potchefstroom.


Luckett, K., 2001b, ‘Responding to equity and development imperatives: Conceptualizing a structurally and epistemically diverse undergraduate curriculum in post-apartheid South Africa’, Equity & Excellence in Education 34(4), 26–35. doi:https://doi.org/10.1080/1066568010340304


